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Front cover picture: Anatomy of a Celestion FTX coaxial driver.
Professional Loudspeakers and Compression Drivers, 2016.



About Celestion



Research and Development

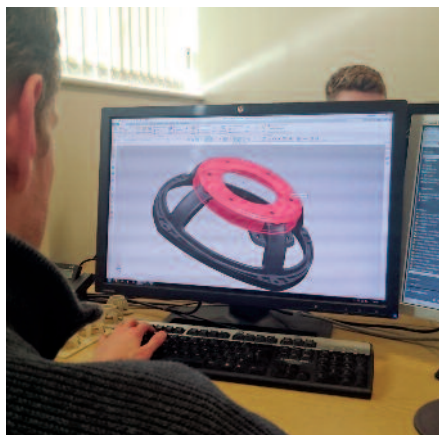
Celestion professional loudspeakers and compression drivers have earned an enviable global reputation for innovative design, exceptional performance and superior reliability. The pursuit of excellence begins with a world-leading team of R&D engineers, led by experienced Head of Engineering Paul Cork at our purpose-built facility in Ipswich, England. The team are supported by state-of-the-art design, development, analysis and testing tools as well as experienced technical drawing and specialist development technicians with the resources on-site to prototype, test and measure the performance of new designs.

In addition to developing our standard range, the R&D team also works with our OEM customers to establish the parameters of a specific project and identify the best way to fulfill the design brief, either by modifying an existing model or developing a new product 'from the ground up'.



Celestion's R&D department also calls upon the expertise of the Group Research team, headed by Mark Dodd. Its remit is to discover and develop new technologies, techniques and processes that add value to the fast-expanding portfolio of Celestion professional audio products. Mark is a participating member of the Audio Engineering Society, and one of the foremost contributors of authoritative papers on compression driver and loudspeaker technology.

Design and Engineering



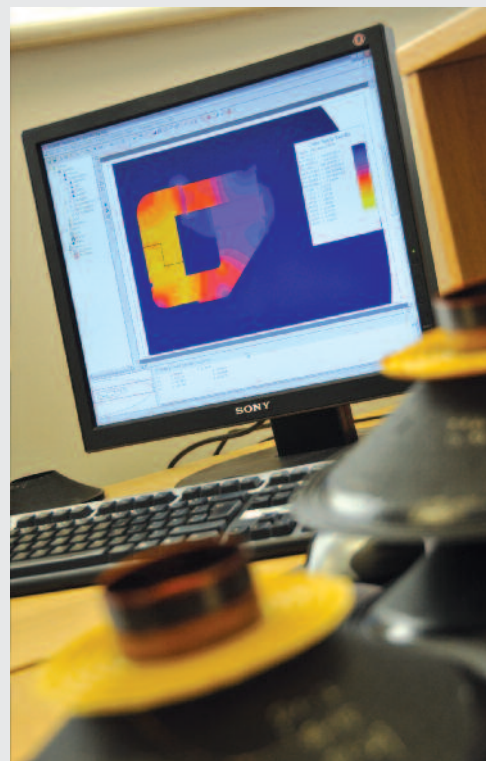
Celestion has access to the latest design software employing the principles and methods of Finite Element Analysis (FEA) for efficient loudspeaker development, as well as design tools such as 3-D CAD for technical drawing.

With more than 100 years of combined experience in loudspeaker design and

development, the Celestion team has pushed the boundaries of these tools to achieve new levels of flexibility in modelling and accuracy in measurement, and created custom interfaces to enable more revealing presentation of data.

Pioneering users of FEA for the prediction of mechanical and thermal properties, Celestion was the first loudspeaker manufacturer to use FEA for vibro-acoustic modelling and to predict magnetic inductance, subsequently combining these results with magneto-static modelling to provide a complete, voltage-coupled model.

Such innovations empower the Celestion team to take new product concepts and make finite element models of their electrical, mechanical and acoustical properties, combining these to create a 'Virtual Prototype'. This advanced technique builds greater accuracy, flexibility and creativity into the development process.



Analysis and Testing



The development process is dramatically enhanced by the ability to produce prototypes and sample runs on site. The Ipswich facility is equipped with a full production line plus all the machinery required to build short runs for testing, measurement, approval and production engineering.

Celestion engineers make extensive use of the industry-standard Klippel® Distortion Analyser, measuring actual physical prototypes to verify the results achieved in FEA modelling. The system provides detailed analysis of motor design, voice coil alignment and cone suspension to achieve very low distortion performance. By bringing these processes together in one place, the Celestion team is fully resourced to develop sound reinforcement loudspeaker and compression driver solutions that match and exceed the performance and cost requirements of an impressive list of systems builders.

Test resources include a hemi-anechoic chamber which provides a reflection-free environment for the precision measurement of key physical properties including frequency response and sound pressure level.

Additionally a set of plane wave tubes is located in the development laboratory for the further measurement of compression drivers. Alongside scientific testing facilities, Celestion has also created an exceptional analytical listening environment designed by the world-renowned Philip Newell. Here, new loudspeaker designs can be auditioned and compared in an acoustically neutral listening space.

Throughout the development process a new product is subject to a rigorous testing regime enabling Celestion to confidently claim that each product is consistently capable of delivering the same high quality and trouble-free performance now and for years to come.



Manufacturing and Logistics



Celestion is part of the Gold Peak group with an annual turnover of more than US \$1 Billion. Manufacturing takes place at our own, ISO9000 and ISO14000-accredited, 30,000m² facility where more than 1400 highly-trained

employees share a singular commitment to quality. Here, modern production lines enable Celestion to achieve exceptional consistency and productivity. In addition, the manufacturing facility replicates the Ipswich test and listening facilities, incorporating its own hemi-anechoic chamber and acoustically neutral listening room, and industry-standard measurement equipment. This ensures the highest degree of accuracy from design inception right through to final manufacture.

With warehousing facilities in Europe, China and on the east and west coasts of the US, Celestion customers enjoy efficient logistics and day-to-day contact with local account managers based in all major territories. Thanks to the streamlined integration of research and development, manufacturing and logistics operations, Celestion delivers an unrivalled combination of product performance, service and value.



Axi

Wide bandwidth, AxiPeriodic driver

Key Technologies

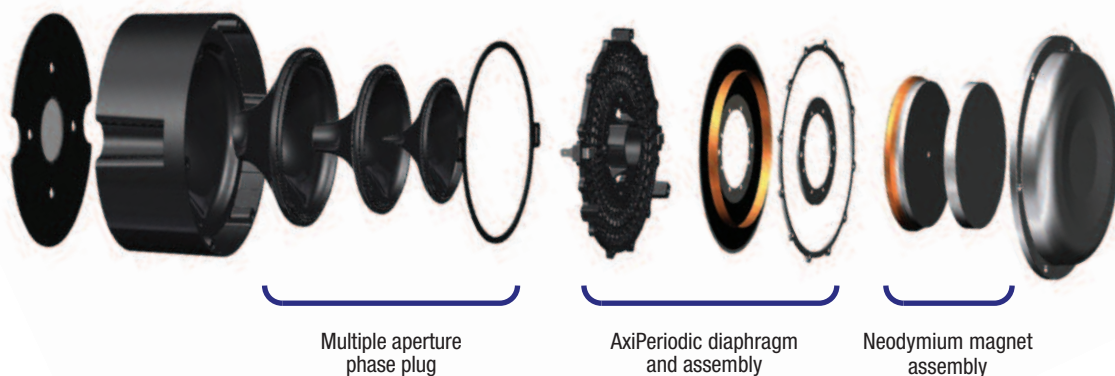
Essentially performing the role of two speakers in one, Celestion's Axi2050 is a high power, high-output driver delivering a frequency range of 300Hz to 20,000Hz without the need for a crossover. The result is an exceptionally coherent signal in the critical listening band, ideal for applications in which clarity and speech intelligibility are particularly important.

Existing high sensitivity, wide band drivers use a 'co-entrant' design employing two separate diaphragms, requiring a crossover and the combining of acoustical signals with a waveguide. Five years in development, Axi2050 uses a single, patented, large diameter annular diaphragm to reproduce a wide frequency band with many significant advantages over conventional designs.

Central to the groundbreaking performance of the Axi2050 is a heavily sculpted, circumferentially AxiPeriodic annular titanium diaphragm. Its unique periodically symmetrical curved elements allow both the large diameter necessary to reproduce a wide frequency band and the low mass required for higher efficiency, while also reducing the number of vibration modes in the critical listening band for a very low distortion performance. The geometry allows the shape of the mechanical modes to be tailored so they do not couple with the acoustic modes, so there are no large resonance peaks. Additionally, the large area allows very high SPL to be generated, even at low frequencies.

- **Near full-range, high efficiency output (300Hz - 20kHz), no crossover required**
- **Innovative, low mass titanium diaphragm with unique, circumferentially AxiPeriodic geometry**
- **Sculpted diaphragm profile for added stiffness to prevent break-up in the critical listening band, delivering a noticeably improved audio performance**
- **Patented innovation**

Anatomy of an AxiPeriodic driver





Axi2050

Wide bandwidth, AxiPeriodic driver

General Specifications

| | |
|---------------------------------|----------------------------------------------------------------------------------------|
| Power rating ¹ | 150Wrms |
| Nominal impedance | 8Ω |
| Sensitivity ² | 140dB |
| Frequency range | 300-20,000Hz |
| Voice coil diameter | 125mm/5in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Neodymium |
| Diaphragm type | Circumferentially, AxiPeriodic, single annular titanium diaphragm, integrated surround |

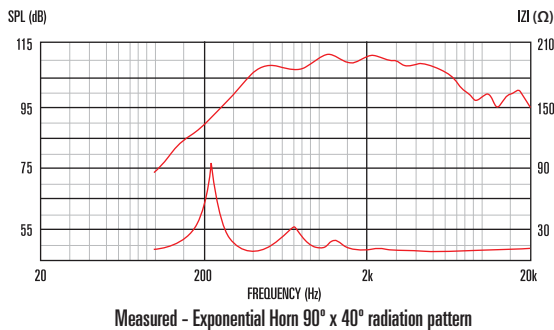
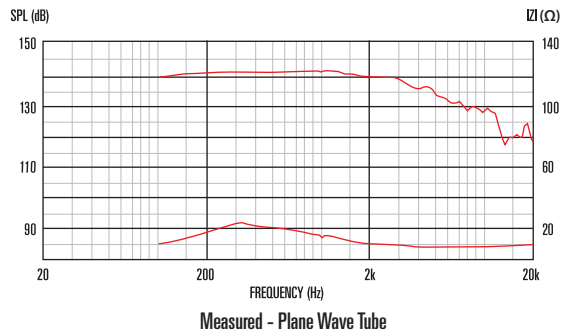
Mounting Information

| | |
|-------------------|----------------------------------------|
| Width | 198mm/7.8in |
| Depth | 110.5mm/4.4in |
| Weight | 7kg/15.4lb |
| Fitting | Flange (4 x M6 holes on 102mm/4in PCD) |
| Throat exit | 50mm/2in |

Features

- Wide bandwidth midrange / high frequency driver
- No crossover required, leading to improved performance across the crucial vocal audio band, for superb intelligibility
- Mechanical vibration modes fully decoupled from acoustic modes, removing unwanted resonance peaks
- Large surround area extends low frequency performance, while minimising distortion
- High power rating and high output sensitivity

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Measured at 1W/ on a plane wave tube.



HF Neo

Neodymium magnet compression drivers

Range Overview

Celestion neodymium magnet compression drivers offer system designers a comprehensive range of high performance, light weight devices encompassing 0.75", 1", 1.4" and 2" throat exits, and 1", 1.4" and 3" voice coil diameters.

The range includes the light weight and compact 17 Series with titanium or PETP film diaphragms, and the 14 Series super-compact compression drivers which feature aluminium diaphragms.

Designed at our loudspeaker R&D facility in the UK, Celestion compression drivers benefit from advanced FEA modelling in the development stage to optimise acoustic, mechanical and electromagnetic properties. Production takes place at our ultra-modern, purpose-built plant in China, where exacting manufacturing and testing standards ensure long term reliability.



HF Neo Range

| | Magnet Type | Voice Coil Diameter | Throat Exit | Mounting | Diaphragm Material | Power Rating* | Impedance | Sensitivity | Frequency Range | Min Crossover Frequency | Unit Weight |
|-------------------|-------------|---------------------|-------------|----------|--------------------|---------------|-----------|-------------|-----------------|-------------------------|---------------|
| CDX20-3000 | Neodymium | 75mm/3in | 2in/50mm | Flange | Titanium | 75Wrms | 8/16Ω | 107dB | 500-18,000Hz | 800Hz | 2.0kg/4.4lb |
| CDX14-3050 | Neodymium | 75mm/3in | 1.4in/35mm | Flange | Titanium | 75Wrms | 8/16Ω | 106.5dB | 500-18,000Hz | 1000Hz | 1.7kg/3.7lb |
| CDX14-2420 | Neodymium | 60mm/2.4in | 1.4in/35mm | Flange | Titanium | 70Wrms | 8/16Ω | 106.5dB | 800-20,000Hz | 1200Hz | 1.5kg/3.3lb |
| CDX1-1720 | Neodymium | 44mm/1.75in | 1in/25mm | Flange | Titanium | 50Wrms | 8Ω | 107dB | 800-20,000Hz | 1500Hz | 0.65kg/1.4lb |
| CDX1-1730 | Neodymium | 44mm/1.75in | 1in/25mm | Flange | PETP film | 40Wrms | 8/16Ω | 110dB | 1200-20,000Hz | 2200Hz | 0.65kg/1.4lb |
| CDX1-1731 | Neodymium | 44mm/1.75in | 1in/25mm | Screw | PETP film | 40Wrms | 8/16Ω | 110dB | 1200-20,000Hz | 2200Hz | 0.65kg/1.4lb |
| CDX1-1430 | Neodymium | 35mm/1.4in | 1in/25mm | Flange | Aluminium | 50Wrms | 8Ω | 108dB | 2000-20,000Hz | 2500Hz | 0.47kg/1.0lb |
| CDX1-1425 | Neodymium | 35mm/1.4in | 1in/25mm | Flange | Aluminium | 25Wrms | 8/16Ω | 108dB | 2000-20,000Hz | 2500Hz | 0.39kg/0.9lb |
| CDX1-1415 | Neodymium | 35mm/1.4in | 1in/25mm | Flange | Aluminium | 20Wrms | 8Ω | 104dB | 2000-20,000Hz | 2500Hz | 0.25kg/0.6lb |
| CDX07-1075 | Neodymium | 25mm/1in | 19mm/0.75in | Flange | Polyimide | 15Wrms | 8Ω | 109dB | 1500-18,000Hz | 2500Hz | 0.16kg/0.35lb |

*AES Standard

Key Technologies

A number of models in Celestion's HF Neo range make use of the ground-breaking MMS™ (Maximum Modal Suppression) phase plug design. Applying advanced mathematical analysis to the motion of a curved diaphragm, Celestion's Group Research team developed a new method for calculating the width and position of the slots used in a phase plug. Building on long-established technology, this patented design significantly reduces the occurrence of unwanted resonances in the cavity between the diaphragm and the phase plug itself. The result is greater modal suppression and reduced air non-linearity. The benefit is a better time domain response and much lower distortion than the existing industry standard.

Incorporated into this ground-breaking new design is a titanium diaphragm that has been "deep-drawn" (manufactured with a taller dome shape) to improve stiffness. The deep-drawn diaphragm exhibits first modal break up around 15 kHz. In comparison, a typical compression driver diaphragm starts to break up in the 8-10 kHz range. The higher threshold frequency of the diaphragm avoids the break-up (and hence distortion) within the critical mid-range listening band that is associated with lower profile diaphragms.

- Patented phase plug design for greater modal suppression and reduced air non-linearity
- Deep-drawn diaphragms for increased stiffness and lower distortion
- Comprehensive range including 1", 1.4" and 2" throat exit diameters; PETP film, titanium and aluminium diaphragms; and flange and screw mountings
- Proprietary Sound Castle™ clamping ensures even pressure of diaphragm surround, while enabling the use of the full internal volume of the rear cover
- FEA optimised magnetic and acoustic design for light weight and low distortion

Patented phase plug design improves modal suppression



Typical annular slot phase plug



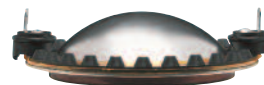
Celestion annular slot phase plug

A new design methodology re-calculates slot width and slot positioning ratios. The result is improved modal suppression within the phase plug, hence lower distortion when compared to a typical compression driver

Deep-drawn titanium diaphragm increases stiffness



Diaphragm from typical large format compression driver



Celestion deep-drawn diaphragm for large format compression drivers

The deep-drawn diaphragm exhibits first modal break up around 15kHz, compared with a typical compression driver where the diaphragm starts to break up in the 8-10kHz range, which can add distortion to the critical mid-range listening band.

CDX20-3000

Neodymium magnet compression driver

General Specifications

| | |
|-------------------------------------------------|---------------------------------|
| Power rating ¹ | 75Wrms |
| Continuous power rating ² | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 107dB |
| Frequency range | 500-18,000Hz |
| Recommended min. crossover (12dB/oct) | 800Hz |
| Voice coil diameter | 75mm/3in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Neodymium |
| Diaphragm material | Titanium |
| Surround material | Polyimide |

Mounting Information

| | |
|-----------------------|----------------------------------------|
| Width | 125mm/5.0in |
| Depth | 94mm/3.7in |
| Weight | 2.0kg/4.4lb |
| Fitting | Flange (4 x M6 holes on 102mm/4in PCD) |
| Throat exit | 50.8mm/2in |

Packed Dimensions & Weight

| | |
|-----------------------------------------|--------------------------|
| Single pack size W x D x H | 140mm x 135mm x 112mm |
| | /5.5in x 5.3in x 4.4in |
| Single pack weight | 2.4kg/5.3lb |
| Multi pack (6) size W x D x H | 500mm x 365mm x 145mm |
| | /19.7in x 14.4in x 5.7in |
| Multi pack (6) weight | 13.5kg/29.7lb |

Repair Kits

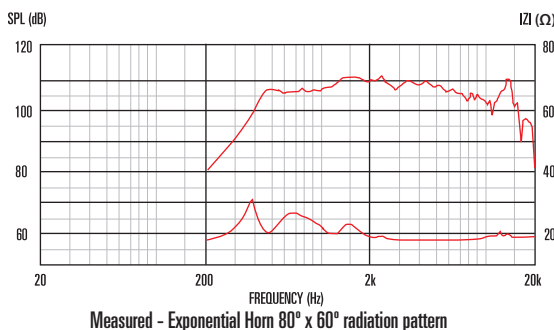
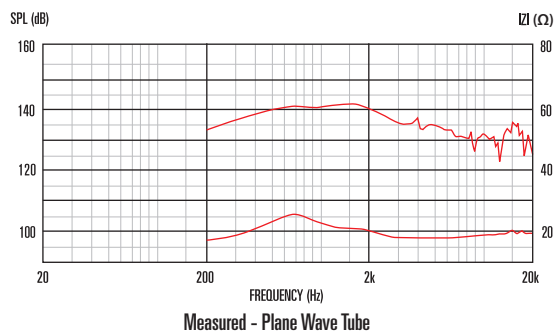
| | |
|-----------------|----------------------------|
| T5526 | Diaphragm repair kit (8Ω) |
| T5538 | Diaphragm repair kit (16Ω) |



Features

- 2" exit, neodymium magnet, 3" voice coil compression driver provides 75Wrms (AES standard) power handling and 107dB sensitivity
- Patented phase plug design method suppresses cavity resonances at higher frequencies
- Titanium diaphragm, deep drawn to increase stiffness and reduce distortion
- Lower compression ratio reduces air non-linearity and allows for higher maximum SPL
- Rolled polyimide surround improves stiffness control, further lowering distortion
- Curved coherent wavefront, optimised for horn loading

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.

Also available in 16Ω, data available on request





CDX14-3050

Neodymium magnet compression driver

General Specifications

| | |
|---------------------------------------------|---------------------------------|
| Power rating ¹ | 75Wrms |
| Continuous power rating ² | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 106.5dB |
| Frequency range | 500-18,000Hz |
| Recommended min. crossover (12dB/oct) | 1000Hz |
| Voice coil diameter | 75mm/3in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Neodymium |
| Diaphragm material | Titanium |
| Surround material | Polyimide |

Mounting Information

| | |
|-------------------|----------------------------------------|
| Width | 125mm/5.0in |
| Depth | 56mm/2.2in |
| Weight | 1.7kg/3.7lb |
| Fitting | Flange (4 x M6 holes on 102mm/4in PCD) |
| Throat exit | 35.6mm/1.4in |

Packed Dimensions & Weight

| | |
|-------------------------------------|-------------------------|
| Single pack size W x D x H | 130mm x 130mm x 65mm |
| ..... | 5.1in x 5.1in x 2.6in |
| Single pack weight | 2.0kg/4.4lb |
| Multi pack (6) size W x D x H | 500mm x 365mm x 90mm |
| ..... | 19.7in x 14.4in x 3.5in |
| Multi pack (6) weight | 11.5 kg/25.3lb |

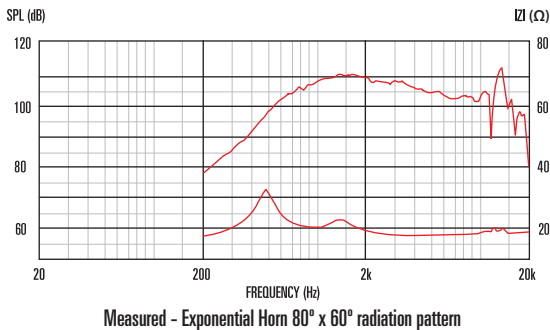
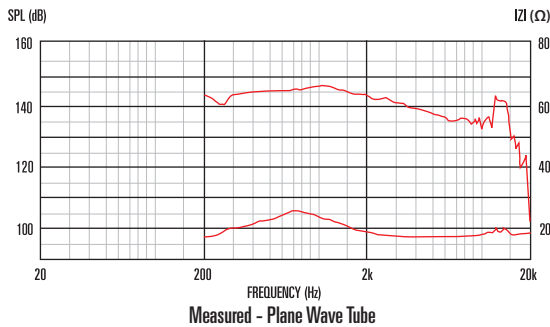
Repair Kits

| | |
|-------------|----------------------------|
| T5526 | Diaphragm repair kit (8Ω) |
| T5538 | Diaphragm repair kit (16Ω) |

Features

- 1.4" exit, neodymium magnet, 3" voice coil compression driver provides 75Wrms (AES standard) power handling and 106.5dB sensitivity
- Patented phase plug design method suppresses cavity resonances at higher frequencies
- Titanium diaphragm, deep drawn to increase stiffness and reduce distortion
- Lower compression ratio reduces air non-linearity and allows for higher maximum SPL
- Rolled polyimide surround improves stiffness control, further lowering distortion
- Curved coherent wavefront, optimised for horn loading

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX14-2420

Neodymium magnet compression driver

General Specifications

| | |
|-------------------------------------------------|---------------------------------|
| Power rating ¹ | 70Wrms |
| Continuous power rating ² | 140W |
| Nominal impedance | 16Ω |
| Sensitivity ³ | 106.5dB |
| Frequency range | 800-20,000Hz |
| Recommended min. crossover (12dB/oct) | 1200Hz |
| Voice coil diameter | 60mm/2.4in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Neodymium |
| Diaphragm material | Titanium |
| Surround material | Polyimide |

Mounting Information

| | |
|-----------------------|----------------------------------------|
| Width | 116mm/4.6in |
| Depth | 56mm/2.2in |
| Weight | 1.5kg/3.3lb |
| Fitting | Flange (4 x M6 holes on 102mm/4in PCD) |
| Throat exit | 35.6mm/1.4in |

Packed Dimensions & Weight

| | |
|-----------------------------------------|-------------------------|
| Single pack size W x D x H | 172mm x 135mm x 69mm |
| | /6.8in x 5.3in x 2.7in |
| Single pack weight | 1.8kg/3.9lb |
| Multi pack (6) size W x D x H | 500mm x 365mm x 90mm |
| | 19.7in x 14.4in x 3.5in |
| Multi pack (6) weight | 11.5 kg/25.3lb |

Repair Kits

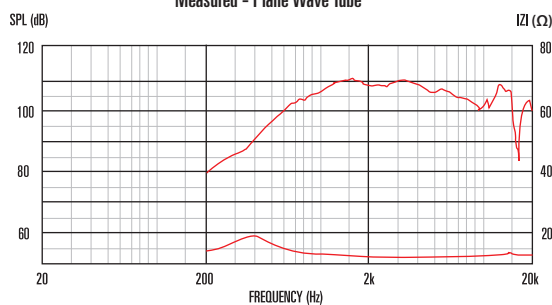
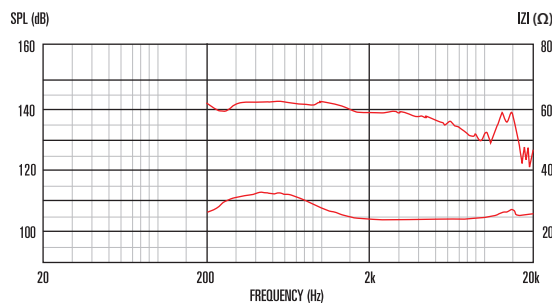
| | |
|-----------------|----------------------------|
| T5548 | Diaphragm repair kit (16Ω) |
|-----------------|----------------------------|



Features

- 1.4" exit, neodymium magnet, 60mm (2.4") voice coil compression driver provides 70Wrms (AES standard) power handling and 106.5dB sensitivity
- Patented phase plug design method suppresses cavity resonances at higher frequencies
- Titanium diaphragm, deep drawn to increase stiffness and reduce distortion
- Lower compression ratio reduces air non-linearity and allows for higher maximum SPL
- Rolled polyimide surround improves stiffness control, further lowering distortion
- Curved coherent wavefront, optimised for horn loading

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.

Also available in 8Ω, data available on request





CDX1-1720

Neodymium magnet compression driver

General Specifications

| | |
|--------------------------------------------|---------------------------------|
| Power rating ¹ | 50Wrms |
| Continuous power rating ² | 100W |
| Nominal impedance..... | 8Ω |
| Sensitivity ³ | 107dB |
| Frequency range..... | 800-20,000Hz |
| Recommended min. crossover (12dB/oct)..... | 1500Hz |
| Voice coil diameter | 44mm/1.75in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type..... | Neodymium |
| Diaphragm material..... | Titanium |
| Surround material | Polyimide |

Mounting Information

| | |
|---------------------|---------------------------------------|
| Maximum width | 88.5mm/3.48in |
| Minimum width | 82.0mm/3.23in |
| Depth | 55mm/2.2in |
| Weight | 0.65kg/1.4lb |
| Fitting | Flange (4 x M6 holes on 76mm/3in PCD) |
| Throat exit | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|--------------------------------------|--------------------------|
| Single pack size W x D x H | 90mm x 90mm x 60mm |
| ..... | /3.5in x 3.5in x 2.4in |
| Single pack weight | 0.75kg/1.65lb |
| Multi pack (16) size W x D x H | 500mm x 485mm x 110mm |
| ..... | /19.7in x 19.1in x 4.3in |
| Multi pack (16) weight..... | 11.2kg/24.9lb |

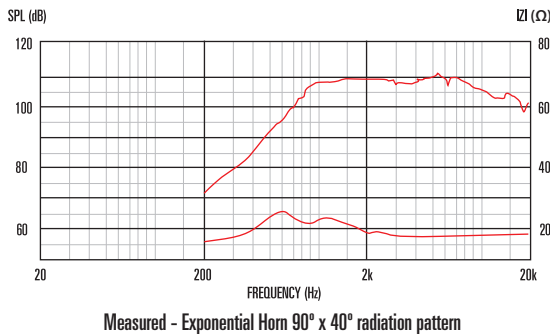
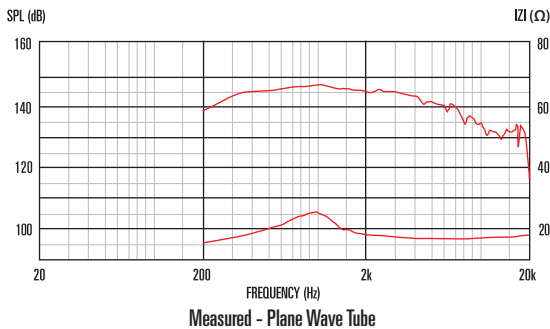
Horns & Repair Kits

| | |
|-------------|--------------------------------------|
| T5555..... | Diaphragm repair kit (8Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134..... | H1-7050 'No Bell' Horn (see page 36) |

Features

- 1" exit, lightweight and compact compression driver featuring neodymium magnet and 1.75" diameter titanium diaphragm
- 50Wrms (AES standard) power handling and 107dB sensitivity
- Rolled polyimide surround improves stiffness control, further lowering distortion
- Lower resonance enabling lower crossover frequency
- Patented phase plug design method suppresses cavity resonances at frequencies higher than that of conventional designs
- Lower compression ratio reduces air non-linearity and allows for higher maximum SPL
- Curved coherent wavefront, optimised for horn loading

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1730

Neodymium magnet compression driver

General Specifications

| | |
|--------------------------------------------|---------------------------------|
| Power rating ¹ | 40Wrms |
| Continuous power rating ² | 80W |
| Nominal impedance..... | 8Ω |
| Sensitivity ³ | 110dB |
| Frequency range..... | 1200-20,000Hz |
| Recommended min. crossover (12dB/oct)..... | 2200Hz |
| Voice coil diameter..... | 44mm/1.75in |
| Voice coil material..... | Edgewound copper clad aluminium |
| Magnet type..... | Neodymium |
| Diaphragm and surround material..... | PETP film |

Mounting Information

| | |
|--------------------|---------------------------------------|
| Maximum width..... | 88.5mm/3.48in |
| Minimum width..... | 82.0mm/3.23in |
| Depth..... | 55mm/2.2in |
| Weight..... | 0.65kg/1.4lb |
| Fitting..... | Flange (4 x M6 holes on 76mm/3in PCD) |
| Throat exit..... | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|-------------------------------------|--------------------------|
| Single pack size W x D x H..... | 90mm x 90mm x 60mm |
| ..... | /3.5in x 3.5in x 2.4in |
| Single pack weight..... | 0.75kg/1.7lb |
| Multi pack (16) size W x D x H..... | 500mm x 485mm x 110mm |
| ..... | /19.7in x 19.1in x 4.3in |
| Multi pack (16) weight..... | 11.2kg/24.9lb |

Horns & Repair Kits

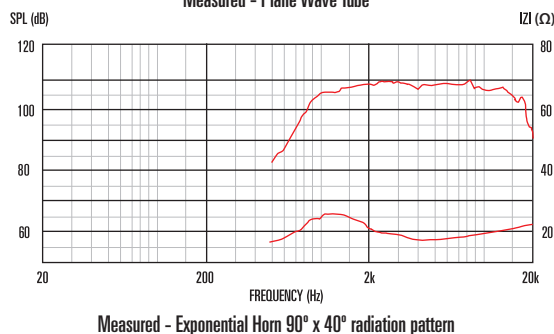
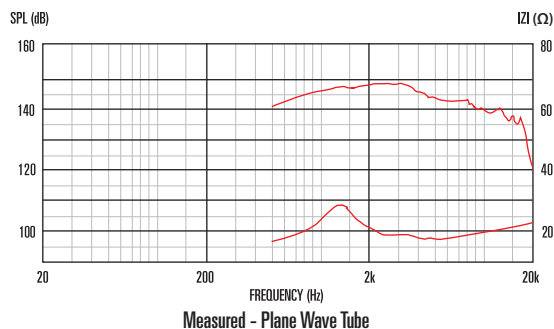
| | |
|------------|--------------------------------------|
| T5510..... | Diaphragm repair kit (8Ω) |
| T5523..... | Diaphragm repair kit (16Ω) |
| T5359..... | H1-9040P Horn (see page 37) |
| T5134..... | H1-7050 'No Bell' Horn (see page 36) |



Features

- 1" exit, neodymium magnet compression driver with 1.75" edgewound copper clad aluminium voice coil
- 40Wrms (AES standard) power handling and 110dB sensitivity
- Designed with Sound Castle™ clamping to ensure uniform pressure on diaphragm assembly for reduced acoustic distortion
- One piece PETP film diaphragm and surround
- Advanced Finite Element Analysis (FEA) tools used to create a very light weight, high powered compression driver

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2x anechoic environment.

Also available in 16Ω, data available on request



CDX1-1731

Neodymium magnet compression driver

General Specifications

| | |
|---------------------------------------------|---------------------------------|
| Power rating ¹ | 40Wrms |
| Continuous power rating ² | 80W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 110dB |
| Frequency range | 1200-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 44mm/1.75in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Neodymium |
| Diaphragm and surround material | PETP film |

Mounting Information

| | |
|---------------------|--------------------------|
| Maximum width | 88.5mm/3.48in |
| Minimum width | 82.0mm/3.23in |
| Depth | 57mm/2.3in |
| Weight | 0.65kg/1.4lb |
| Fitting | Screw (35mm, 1.38in dia) |
| Throat exit | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|--------------------------------------|-------------------------|
| Single pack size W x D x H | 90mm x 90mm x 60mm |
| ..... | 3.5in x 3.5in x 2.4in |
| Single pack weight | 0.75kg/1.7lb |
| Multi pack (16) size W x D x H | 500mm x 485mm x 110mm |
| ..... | 19.7in x 19.1in x 4.3in |
| Multi pack (16) weight | 11.2kg/24.6lb |

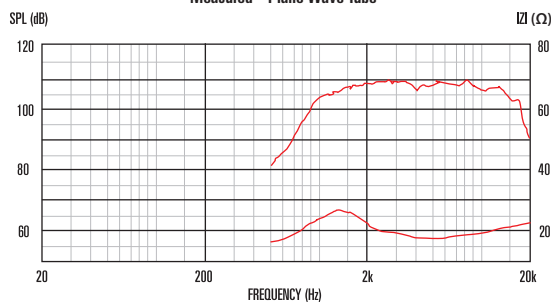
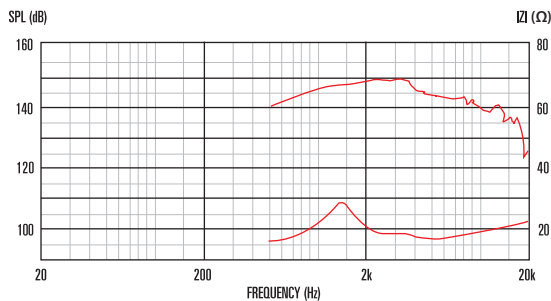
Horns & Repair Kits

| | |
|-------------|------------------------------|
| T5510 | Diaphragm repair kit (8Ω) |
| T5523 | Diaphragm repair kit (16Ω) |
| T5951 | H1SC-9040 Horn (see page 39) |
| T5952 | H1SC-7050 Horn (see page 38) |

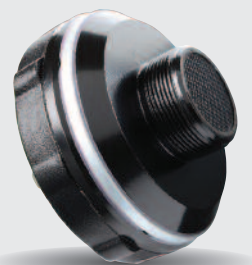
Features

- 1" exit, neodymium magnet compression driver with 1.75" edgewound copper clad aluminium voice coil
- 40Wrms (AES standard) power handling and 110dB sensitivity
- Designed with Sound Castle™ clamping to ensure uniform pressure on diaphragm assembly for reduced acoustic distortion
- One piece PETP film diaphragm and surround
- Advanced Finite Element Analysis (FEA) tools used to create a very light weight, high powered compression driver

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2r anechoic environment.



CDX1-1430

Neodymium magnet compression driver

General Specifications

| | |
|-------------------------------------------------|-----------------------|
| Power rating ¹ | 50Wrms |
| Continuous power rating ² | 100W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 108dB |
| Frequency range | 2000-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2500Hz |
| Voice coil diameter | 35mm/1.4in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Neodymium |
| Diaphragm material | Aluminium |
| Surround material | Elastomer |

Mounting Information

| | |
|-----------------------|-----------------------------------------|
| Width | 90mm/3.5in |
| Depth | 58mm/2.3in |
| Weight | 0.47kg/1.0lb |
| Fitting | Flange (2 x M6 holes on 76mm/3.0in PCD) |
| Throat exit | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|------------------------------------------|--------------------------|
| Single pack size W x D x H | 90mm x 90mm x 60mm |
| | /3.5in x 3.5in x 2.4in |
| Single pack weight | 0.6kg/1.3lb |
| Multi pack (24) size W x D x H | 345mm x 370mm x 245mm |
| | /13.6in x 14.6in x 9.6in |
| Multi pack (24) weight | 12.5kg/28lb |

Horns & Repair Kits

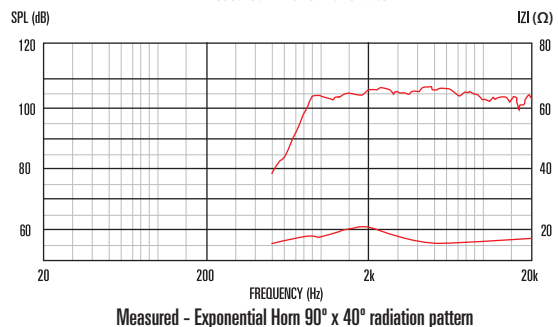
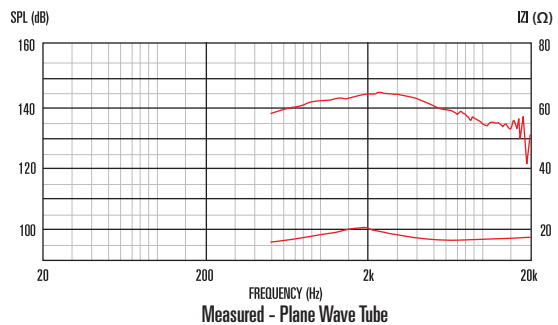
| | |
|-----------------|--------------------------------------|
| T5503 | Diaphragm repair kit (8Ω) |
| T5542 | Diaphragm repair kit (16Ω) |
| T5359 | H-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |



Features

- 1" exit neodymium compression driver with 1.4" copper clad aluminium voice coil
- 50Wrms power handling (AES standard) and 108dB sensitivity
- Copper sleeve on pole reduces inductive rise for improved HF performance
- Ferrofluid in magnet gap prevents sensitivity loss through thermal compression
- Aluminium diaphragm combined with elastomer surround delivers lower distortion performance
- Finite Element Analysis (FEA) used to optimise both magnet and acoustic design
- Screw mounting adaptor available

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1425

Neodymium magnet compression driver

General Specifications

| | |
|--------------------------------------------|-----------------------|
| Power rating ¹ | 25Wrms |
| Continuous power rating ² | 50W |
| Nominal impedance..... | 8Ω |
| Sensitivity ³ | 108dB |
| Frequency range..... | 2000-20,000Hz |
| Recommended min. crossover (12dB/oct)..... | 2500Hz |
| Voice coil diameter | 35mm/1.4in |
| Voice coil material | Copper clad aluminium |
| Magnet type..... | Neodymium |
| Diaphragm material | Aluminium |
| Surround material | Elastomer |

Mounting Information

| | |
|------------------|-----------------------------------------|
| Width..... | 90mm/3.5in |
| Depth | 58mm/2.3in |
| Weight | 0.39kg/0.9lb |
| Fitting | Flange (2 x M6 holes on 76mm/3.0in PCD) |
| Throat exit..... | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|--------------------------------------|--------------------------|
| Single pack size W x D x H..... | 90mm x 90mm x 60mm |
| ..... | /3.5in x 3.5in x 2.4in |
| Single pack weight | 0.5kg/1.1lb |
| Multi pack (24) size W x D x H | 250mm x 350mm x 290mm |
| ..... | /9.8in x 13.8in x 11.4in |
| Multi pack (24) weight | 10kg/22lb |

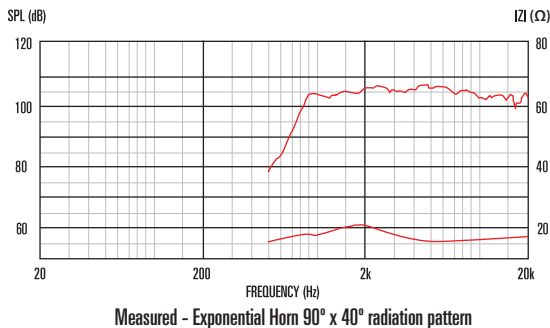
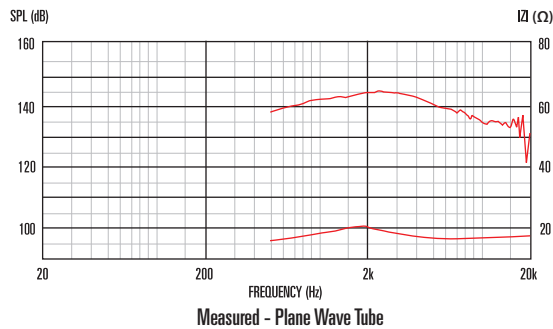
Horns & Repair Kits

| | |
|-------------|--------------------------------------|
| T5503..... | Diaphragm repair kit (8Ω) |
| T5542..... | Diaphragm repair kit (16Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134..... | H1-7050 'No Bell' Horn (see page 36) |

Features

- 1" exit neodymium compression driver with 1.4" copper clad aluminium voice coil
- 25Wrms power handling (AES standard) and 108dB sensitivity
- Copper sleeve on pole reduces inductive rise for improved HF performance
- Ferrofluid in magnet gap prevents sensitivity loss through thermal compression
- Aluminium diaphragm combined with elastomer surround delivers lower distortion performance
- Finite Element Analysis (FEA) used to optimise both magnet and acoustic design
- Suitable for 2-way and 3-way systems, and line arrays

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1415

Neodymium magnet compression driver

General Specifications

| | |
|--------------------------------------------|-----------------------|
| Power rating ¹ | 20Wrms |
| Continuous power rating ² | 40W |
| Nominal impedance..... | 8Ω |
| Sensitivity ³ | 104dB |
| Frequency range..... | 2000-20,000Hz |
| Recommended min. crossover (12dB/oct)..... | 2500Hz |
| Voice coil diameter..... | 35mm/1.4in |
| Voice coil material..... | Copper clad aluminium |
| Magnet type..... | Neodymium |
| Diaphragm material..... | Aluminium |
| Surround material..... | Elastomer |

Mounting Information

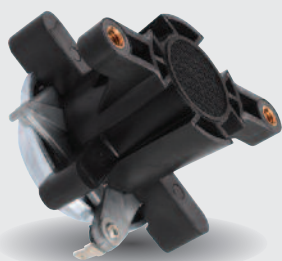
| | |
|------------------|-----------------------------------------|
| Width..... | 90mm/3.5in |
| Depth..... | 57mm/2.2in |
| Weight..... | 0.25kg/0.6lb |
| Fitting..... | Flange (2 x M6 holes on 76mm/3.0in PCD) |
| Throat exit..... | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|-------------------------------------|-------------------------|
| Single pack size W x D x H..... | 90mm x 90mm x 60mm |
| ..... | 3.5in x 3.5in x 2.4in |
| Single pack weight..... | 0.5kg/1.1lb |
| Multi pack (24) size W x D x H..... | 250mm x 350mm x 290mm |
| ..... | 9.8in x 13.8in x 11.4in |
| Multi pack (24) weight..... | 7kg/15lb |

Horns & Repair Kits

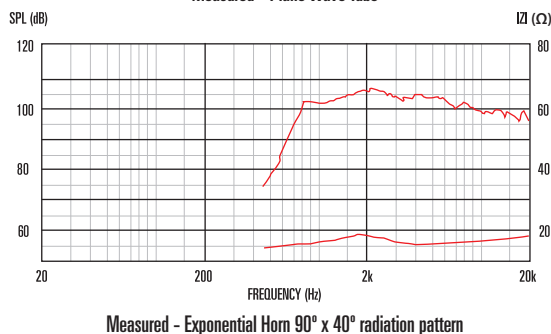
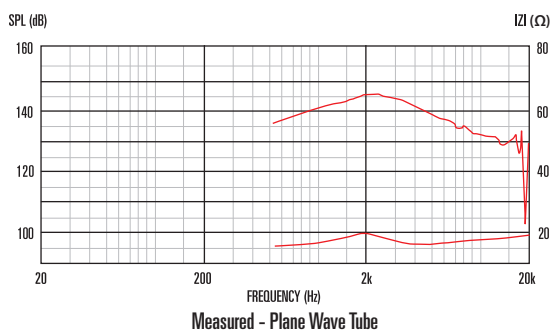
| | |
|------------|--------------------------------------|
| T5503..... | Diaphragm repair kit (8Ω) |
| T5542..... | Diaphragm repair kit (16Ω) |
| T5359..... | H1-9040P Horn (see page 37) |
| T5134..... | H1-7050 'No Bell' Horn (see page 36) |



Features

- 1" exit neodymium compression driver with 1.4" copper clad aluminium voice coil
- 20Wrms power handling (AES standard) and 104dB sensitivity
- Copper sleeve on pole reduces inductive rise for improved HF performance
- Ferrofluid in magnet gap prevents sensitivity loss through thermal compression
- Aluminium diaphragm combined with elastomer surround delivers lower distortion performance
- Compact pot magnet design reduces weight and minimises stray flux
- Suitable for 2-way and 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX07-1075

Neodymium magnet compression driver

General Specifications

| | |
|--------------------------------------------|-----------------------|
| Power rating ¹ | 15Wrms |
| Continuous power rating ² | 30W |
| Nominal impedance..... | 8Ω |
| Sensitivity ³ | 109dB |
| Frequency range..... | 1500-18,000Hz |
| Recommended min. crossover (12dB/oct)..... | 2500Hz |
| Voice coil diameter..... | 25mm/1in |
| Voice coil material..... | Copper clad aluminium |
| Magnet type..... | Neodymium |
| Diaphragm & surround material..... | Polyimide |

Mounting Information

| | |
|------------------|---------------------------------------|
| Width..... | 60mm/2.4in |
| Depth..... | 35mm/1.3in |
| Weight..... | 0.16kg/0.35lb |
| Fitting..... | Flange (2xM4 holes on 53mm/2.1in PCD) |
| Throat exit..... | 19mm/0.75in |

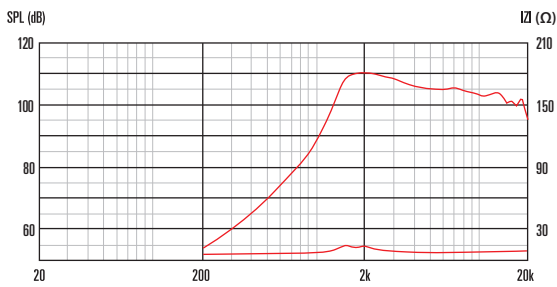
Packed Dimensions & Weight

| | |
|--------------------------------|-------------------------------|
| Multi pack (24) size W x D x H | 300mm x 211mm x 160mm |
| | /11.8in x 8.3in x 6.3in |
| Multi pack (24) weight..... | 6kg/13.2lb |

Features

- Extremely lightweight and compact 0.75" exit, neodymium compression driver
- 1" copper clad aluminium voice coil with single piece polyimide diaphragm assembly
- 15Wrms power handling (AES Standard) and 109dB sensitivity
- Advanced Finite Element Analysis (FEA) techniques used to optimise both magnetic and acoustic design
- Optimised for compact applications where close packing of multiple devices may be required

Frequency Response and Impedance Curves



Measured - Conical Horn, 90mm Diameter

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



HF Ferrite

Ferrite magnet compression drivers

Range Overview

Together, Celestion's ferrite and neodymium magnet compression drivers create an extremely comprehensive product range, providing professional audio systems builders with optimised high frequency performance at every price point.

The ferrite magnet range has been designed to offer a choice of power handling levels (with 1" to 3" diameter voice coils), and throat exit sizes (1", 1.4" and 2" are available). Additionally, the range offers titanium, PETP or polyimide film diaphragms, as well as flange or screw mounting options.

So whether it's the super-compact and lightweight CDX1-1070, or the high performance, very low distortion, large format CDX14-3060 and CDX20-3075 devices, there's a Celestion compression driver for almost every application.



HF Ferrite Range

| | Magnet Type | Voice Coil Diameter | Throat Exit | Mounting | Diaphragm Material | Power Rating* | Impedance | Sensitivity | Frequency Range | Min Crossover Frequency | Unit Weight |
|-------------------|-------------|---------------------|-------------|----------|--------------------|---------------|-----------|-------------|-----------------|-------------------------|--------------|
| CDX20-3075 | Ferrite | 75mm/3in | 2in/50mm | Flange | Titanium | 75Wrms | 8Ω | 107dB | 500-18,000Hz | 800Hz | 4.9kg/10.8lb |
| CDX20-3020 | Ferrite | 75mm/3in | 2in/50mm | Flange | Titanium | 100Wrms | 8Ω | 107dB | 500-18,000Hz | 800Hz | 4.9kg/10.8lb |
| CDX14-3060 | Ferrite | 75mm/3in | 1.4in/35mm | Flange | Titanium | 75Wrms | 8Ω | 106.5dB | 500-18,000Hz | 1000Hz | 4.9kg/10.8lb |
| CDX14-3030 | Ferrite | 75mm/3in | 1.4in/35mm | Flange | Titanium | 75Wrms | 8Ω | 106.5dB | 500-18,000Hz | 1000Hz | 4.9kg/10.8lb |
| CDX1-1747 | Ferrite | 44mm/1.75in | 1in/25mm | Flange | Polyimide | 60Wrms | 8Ω | 110dB | 1500-20,000Hz | 2200Hz | 2.3kg/5.1lb |
| CDX1-1742 | Ferrite | 44mm/1.75in | 1in/25mm | Flange | Polyimide | 50Wrms | 8Ω | 107dB | 1200-20,000Hz | 2000Hz | 1.4kg/3.1lb |
| CDX1-1746 | Ferrite | 44mm/1.75in | 1in/25mm | Screw | PETP film | 40Wrms | 8Ω | 110dB | 1200-20,000Hz | 2200Hz | 2.3kg/5.1lb |
| CDX1-1745 | Ferrite | 44mm/1.75in | 1in/25mm | Flange | PETP film | 40Wrms | 8/16Ω | 110dB | 1200-20,000Hz | 2200Hz | 2.3kg/5.1lb |
| CDX1-1447 | Ferrite | 35mm/1.4in | 1in/25mm | Flange | Polyimide | 35Wrms | 8Ω | 106dB | 1500-20,000Hz | 2200Hz | 1kg/2.2lb |
| CDX1-1440 | Ferrite | 35mm/1.4in | 1in/25mm | Flange | Titanium | 25Wrms | 8Ω | 106dB | 1500-20,000Hz | 2200Hz | 1kg/2.2lb |
| CDX1-1445 | Ferrite | 35mm/1.4in | 1in/25mm | Flange | PETP film | 20Wrms | 8/16Ω | 106dB | 1500-20,000Hz | 2200Hz | 1kg/2.2lb |
| CDX1-1446 | Ferrite | 35mm/1.4in | 1in/25mm | Screw | PETP film | 20Wrms | 8Ω | 106dB | 1500-20,000Hz | 2200Hz | 1kg/2.2lb |
| CDX1-1010 | Ferrite | 25mm/1in | 1in/25mm | Flange | PETP film | 15Wrms | 8Ω | 107dB | 1500-20,000Hz | 2200Hz | 0.83kg/1.8lb |
| CDX1-1070 | Ferrite | 25mm/1in | 1in/25mm | Flange | PETP film | 12Wrms | 8Ω | 106dB | 1500-20,000Hz | 2200Hz | 0.7kg/1.5lb |

*AES Standard

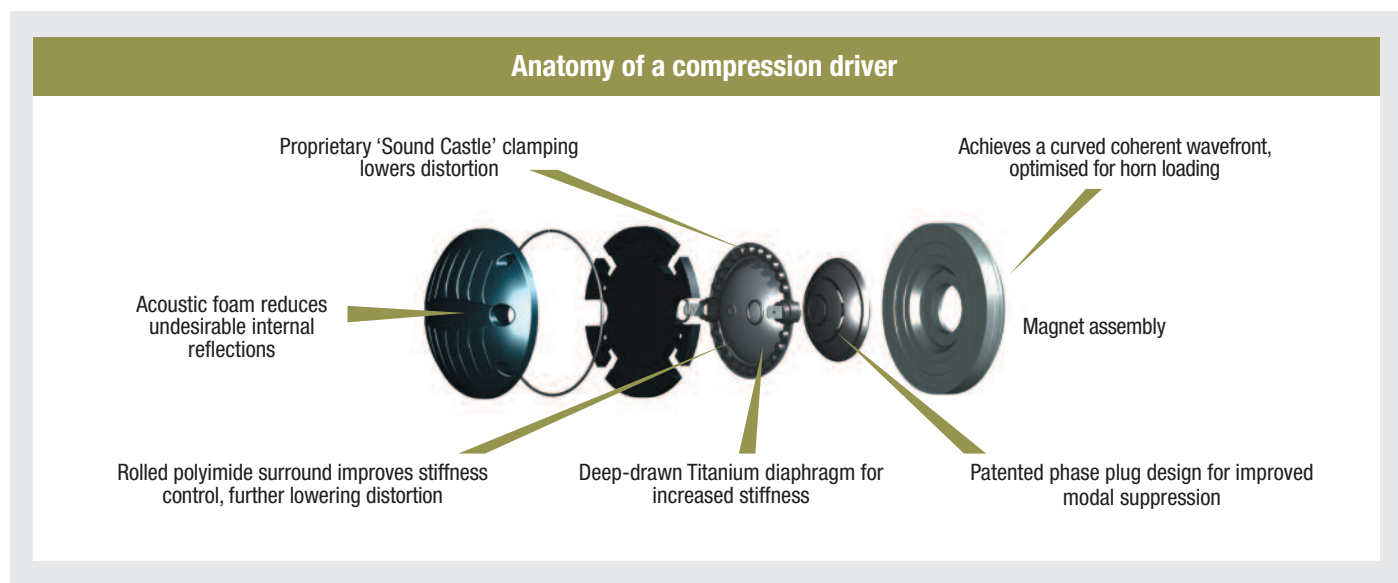
Key Technologies

Celestion's next generation 'soft' Sound Castles™ continue to ensure even pressure on the diaphragm assembly, with the additional benefit of reducing the stress that the diaphragm is placed under when clamped. This results in a further decrease in distortion, and even greater consistency of performance.

Several models feature a patented phase plug design that significantly reduces the occurrence of unwanted resonances in the cavity between the diaphragm and the phase plug resulting in greater modal suppression and reduced air non-linearity. Additional features include a next generation, deep-drawn diaphragm for increased stiffness and lower distortion.

Acoustic foam minimises unwanted cavity resonances and reduces undesirable internal reflections. For models such as the CDX1-1445, the diaphragm is located by a rigid, glass-reinforced high-temperature engineering plastic cover held in place with a precision aluminium carrier, ensuring consistent, reliable performance throughout the lifetime of the sound reinforcement system.

- Comprehensive range including 1", 1.4" and 2" throat exit diameters; PETP film, titanium and polyimide diaphragms; and flange and screw mountings
- Next-generation Sound Castle™ soft clamping assembly reduces diaphragm stress for decreased distortion and even greater reliability of performance
- Patented phase plug design for greater modal suppression and reduced air non-linearity
- Deep-drawn diaphragms for increased stiffness and lower distortion
- FEA optimised magnetic and acoustic design for light weight and low distortion



CDX20-3075

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|---------------------------------|
| Power rating ¹ | 75Wrms |
| Continuous power rating ² | 150W |
| Nominal impedance | 8Ω |
| Frequency range | 500-18,000Hz |
| Sensitivity ³ | 107dB |
| Recommended min. crossover (12dB/oct) | 800Hz |
| Voice coil diameter | 75mm/3in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm material | Titanium |
| Surround material | Polyimide |

Mounting Information

| | |
|-------------------|---------------------------------------------|
| Width | 180mm/7.09in |
| Depth | 71mm/2.8in |
| Weight | 4.8kg/10.6lb |
| Fitting | Flange (4 x M6 holes on 102mm/4.02inch PCD) |
| Throat exit | 50mm/2in |

Packed Dimensions & Weight

| | |
|----------------------------------|-----------------------|
| Single pack size W x D x H | 214mm x 196mm x 82mm |
| ..... | 8.4in x 7.7in x 3.2in |
| Single pack weight | 5.1kg/11.2lb |

Repair Kits

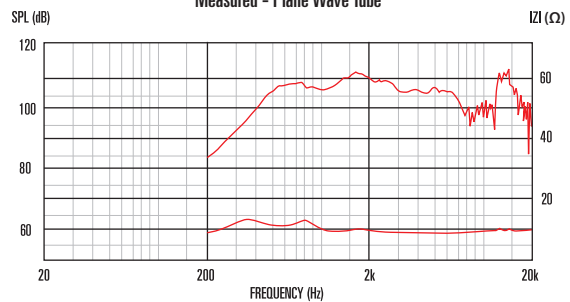
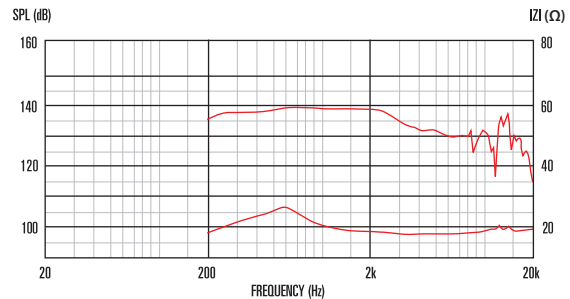
| | |
|-------------|----------------------------|
| T5526 | Diaphragm repair kit (8Ω) |
| T5538 | Diaphragm repair kit (16Ω) |



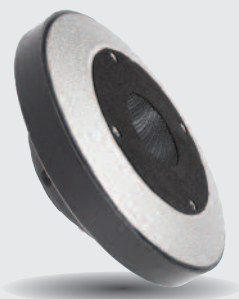
Features

- 2" exit, ferrite magnet, 3" voice coil compression driver provides 75Wrms (AES standard) power handling and 107dB sensitivity
- Patented phase plug design method suppresses cavity resonances at higher frequencies
- Titanium diaphragm, deep drawn to increase stiffness and reduce distortion
- Lower compression ratio reduces air non-linearity and allows for higher maximum SPL
- Rolled polyimide surround improves stiffness control, further lowering distortion
- Curved coherent wavefront, optimised for horn loading

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



NEW

CDX20-3020

Ferrite magnet compression driver



General Specifications

| | |
|-------------------------------------------------|---------------------------------|
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| Nominal impedance | 8Ω |
| Frequency range | 500-18,000Hz |
| Sensitivity ³ | 107dB |
| Recommended min. crossover (12dB/oct) | 800Hz |
| Voice coil diameter | 75mm/3in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | Titanium |

Mounting Information

| | |
|-----------------------|---------------------------------------------|
| Width | 180mm/7in |
| Depth | 68mm/2.7in |
| Weight | 4.9kg/10.8lb |
| Fitting | Flange (4 x M6 holes on 102mm/4.02inch PCD) |
| Throat exit | 50mm/2in |

Packed Dimensions & Weight

| | |
|--------------------------------------|-----------------------|
| Single pack size W x D x H | 214mm x 196mm x 82mm |
| Single pack weight | 1.1kg/2.4lb |
| Single pack size W x D x H | 8.4in x 7.7in x 3.2in |
| Single pack weight | 5.1kg/11.2lb |

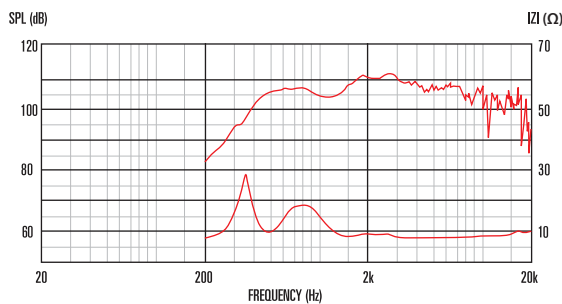
Repair Kits

| | |
|-----------------|---------------------------|
| T6509 | Diaphragm repair kit (8Ω) |
|-----------------|---------------------------|

Features

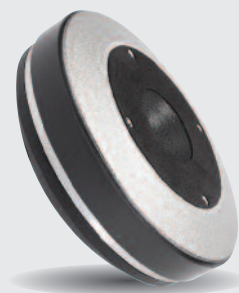
- 2" exit ferrite magnet compression driver with 3" copper clad aluminium voice coil
- 100Wrms (AES standard) power handling and 107dB sensitivity
- Next generation Sound Castle™ soft clamping assembly reduces diaphragm stress for decreased distortion and even greater reliability of performance
- Single piece titanium diaphragm and surround
- Finite element analysis (FEA) used to optimise magnetic, acoustic and electromechanical design

Frequency Response and Impedance Curves



Measured - Exponential Horn 90° x 40° radiation pattern

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2x anechoic environment.



AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

CDX14-3060

Ferrite magnet compression driver

General Specifications

| | |
|-------------------------------------------------|---------------------------------|
| Power rating ¹ | 75Wrms |
| Continuous power rating ² | 150W |
| Nominal impedance | 8Ω |
| Frequency range | 500-18,000Hz |
| Sensitivity ³ | 106.5dB |
| Recommended min. crossover (12dB/oct) | 1000Hz |
| Voice coil diameter | 75mm/3in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm material | Titanium |
| Surround material | Polyimide |

Mounting Information

| | |
|-----------------------|------------------------------------------|
| Width | 180mm/7.0in |
| Depth | 71mm/2.8in |
| Weight | 4.9kg/10.8lb |
| Fitting | Flange (4 x M6 holes on a 102mm/4in PCD) |
| Throat exit | 35.6mm/1.4in |

Packed Dimensions & Weight

| | |
|--------------------------------------|------------------------|
| Single pack size W x D x H | 214mm x 196mm x 82mm |
| | /8.4in x 7.7in x 3.2in |
| Single pack weight | 5.1kg/11.2lb |

Repair Kits

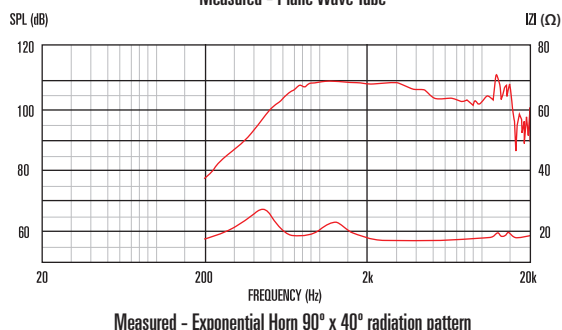
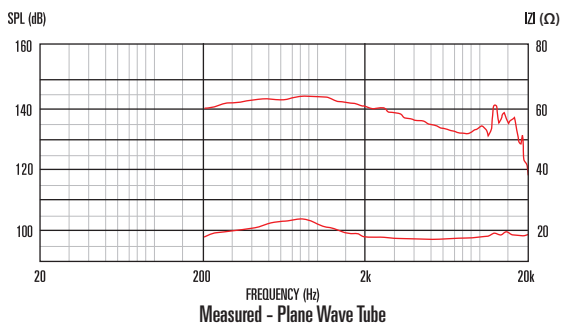
| | |
|-----------------|----------------------------|
| T5526 | Diaphragm repair kit (8Ω) |
| T5538 | Diaphragm repair kit (16Ω) |



Features

- 1.4" exit, ferrite magnet, 3" voice coil compression driver provides 75Wrms (AES standard) power handling and 106.5dB sensitivity
- Patented phase plug design method suppresses cavity resonances at higher frequencies
- Titanium diaphragm, deep drawn to increase stiffness and reduce distortion
- Lower compression ratio reduces air non-linearity and allows for higher maximum SPL
- Rolled polyimide surround improves stiffness control, further lowering distortion
- Curved coherent wavefront, optimised for horn loading

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.





CDX14-3030

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|---------------------------------|
| Power rating ¹ | 75Wrms |
| Continuous power rating ² | 150W |
| Nominal impedance | 8Ω |
| Frequency range | 500-18,000Hz |
| Sensitivity ³ | 106.5dB |
| Recommended min. crossover (12dB/oct) | 1000Hz |
| Voice coil diameter | 75mm/3in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | Titanium |

Mounting Information

| | |
|---------------------|------------------------------------------|
| Overall width | 180mm/7in |
| Overall depth | 68mm/2.7in |
| Fitting | Flange (4 x M6 holes on a 102mm/4in PCD) |
| Throat exit | 35.6mm/1.4in |
| Weight | 4.9kg/10.8lb |

Packed Dimensions & Weight

| | |
|----------------------------------|------------------------|
| Single pack size W x D x H | 214mm x 196mm x 82mm |
| ..... | /8.4in x 7.7in x 3.2in |
| Single pack weight | 5.1kg/11.2lb |

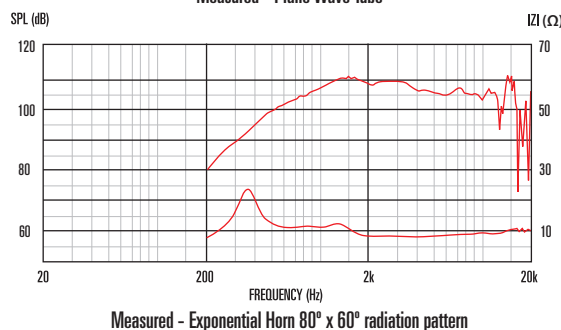
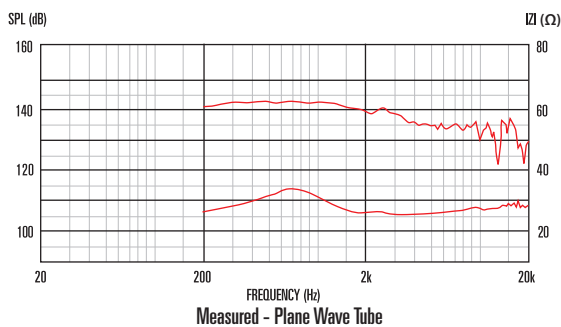
Repair Kits

| | |
|-------------|---------------------------|
| T6509 | Diaphragm repair kit (8Ω) |
|-------------|---------------------------|

Features

- 1.4" exit, ferrite magnet, 3" voice coil compression driver provides 75Wrms (AES standard) power handling and 106.5dB sensitivity
- Next generation Sound Castle™ soft clamping assembly reduces diaphragm stress for decreased distortion and even greater reliability of performance
- One piece titanium diaphragm and surround
- Finite Element Analysis (FEA) used to optimise both magnet assembly and acoustic design

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1747

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|---------------------------------|
| Power rating ¹ | 60Wrms |
| Continuous power rating ² | 120W |
| Nominal impedance | 8Ω |
| Frequency range | 1000-20,000Hz |
| Sensitivity ³ | 110dB |
| Recommended min. crossover (12dB/oct) | 2000Hz |
| Voice coil diameter | 44mm/1.75in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | Polyimide |

Mounting Information

| | |
|-------------------|---------------------------------------------------|
| Width | 120mm/4.72in |
| Depth | 53mm/2.08in |
| Weight | 2.3kg/5.1lb |
| Fitting | Flange (2/3 M6 holes on 76/57.2, 3.0/2.224in PCD) |
| Throat exit | 25.4mm/1.0in |

Packed Dimensions & Weight

| | |
|----------------------------------|-----------------------|
| Single pack size W x D x H | 140mm x 170mm x 70mm |
| ..... | 5.5in x 6.7in x 2.8in |
| Single pack weight | 3kg/6.6lb |

Horns & Repair Kits

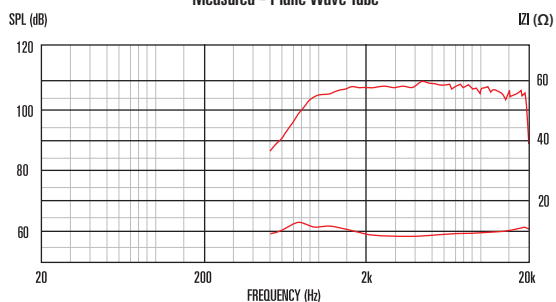
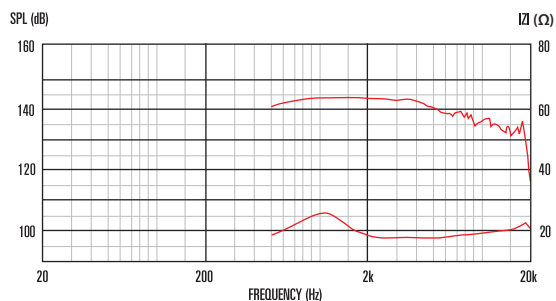
| | |
|-------------|--------------------------------------|
| T5572 | Diaphragm repair kit (8Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |



Features

- 1" exit, ferrite magnet compression driver with 1.75" edgewound copper clad aluminium voice coil
- 60Wrms power handling (AES standard) and 110dB sensitivity
- Next generation Sound Castle™ soft clamping assembly reduces diaphragm stress for decreased distortion and even greater reliability of performance
- One piece polyimide diaphragm and surround
- Finite Element Analysis (FEA) used to optimise both magnet assembly and acoustic design

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1742

Ferrite magnet compression driver



General Specifications

| | |
|-------------------------------------------------|---------------------------------|
| Power rating ¹ | 50Wrms |
| Continuous power rating ² | 100W |
| Nominal impedance | 8Ω |
| Frequency range | 1200-20,000Hz |
| Sensitivity ³ | 107dB |
| Recommended min. crossover (12dB/oct) | 2000Hz |
| Voice coil diameter | 44mm/1.75in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | Polyimide |

Mounting Information

| | |
|-----------------------|--------------------------------------------------|
| Width | 100mm/4in |
| Depth | 53.5mm/2.1in |
| Weight | 1.43kg/3.1lb |
| Fitting | Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD) |
| Throat exit | 25mm/1in |

Packed Dimensions & Weight

| | |
|------------------------------------------|--------------------------|
| Multi pack (16) size W x D x H | 495mm x 495mm x 90mm |
| | /19.5in x 19.5in x 3.5in |
| Multi pack 1(6) weight | 26g/57.2lb |

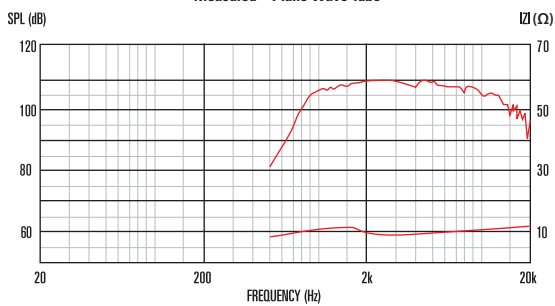
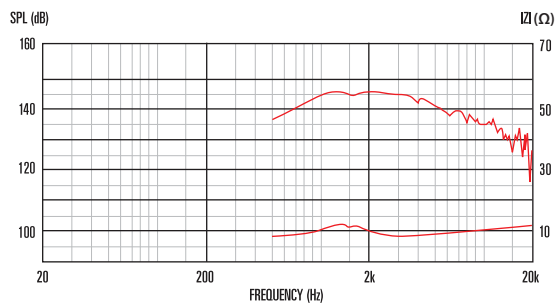
Horns & Repair Kits

| | |
|-----------------|--------------------------------------|
| T5572 | Diaphragm repair kit (8Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |

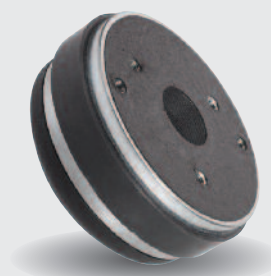
Features

- 1" exit, ferrite magnet compression driver with 1.75" edgewound copper clad aluminium voice coil
- 50Wrms power handling (AES standard) and 107dB sensitivity
- Lightweight, low profile magnet assembly
- Next generation Sound Castle™ soft clamping assembly reduces diaphragm stress for decreased distortion and even greater reliability of performance
- One piece Polyimide diaphragm and surround
- Finite Element Analysis (FEA) used to optimise both magnet assembly and acoustic design

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



AXI | HF Neo
 HF Ferrite
 Horns
 Coaxial
 LF Cast Chassis Neo
 LF Cast Chassis Ferrite
 LF Pressed Chassis Neo
 LF Pressed Chassis Ferrite
 Compact Array

CDX1-1746

Ferrite magnet compression driver

General Specifications

| | |
|--------------------------------------------|---------------------------------|
| Power rating ¹ | 40Wrms |
| Continuous power rating ² | 80W |
| Nominal impedance..... | 8Ω |
| Frequency range..... | 1200-20,000Hz |
| Sensitivity ³ | 110dB |
| Recommended min. crossover (12dB/oct)..... | 2200Hz |
| Voice coil diameter..... | 44mm/1.75in |
| Voice coil material..... | Edgewound copper clad aluminium |
| Magnet type..... | Ferrite |
| Diaphragm and surround material..... | PETP film |

Mounting Information

| | |
|------------------|-------------------------|
| Width..... | 120mm/4.7in |
| Depth..... | 56mm/2.2in |
| Weight..... | 2.3kg/5.1lb |
| Fitting..... | Screw (35mm/1.38in dia) |
| Throat exit..... | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|------------------------------------|--------------------------|
| Single pack size W x D x H..... | 140mm x 170mm x 70mm |
| ..... | /5.5in x 6.7in x 2.8in |
| Single pack weight..... | 3kg/6.6lb |
| Multi pack (6) size W x D x H..... | 430mm x 370mm x 90mm |
| ..... | /16.9in x 14.6in x 3.5in |
| Multi pack (6) weight..... | 14kg/31lb |

Horns & Repair Kits

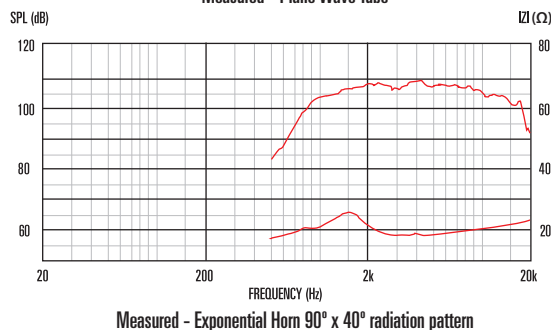
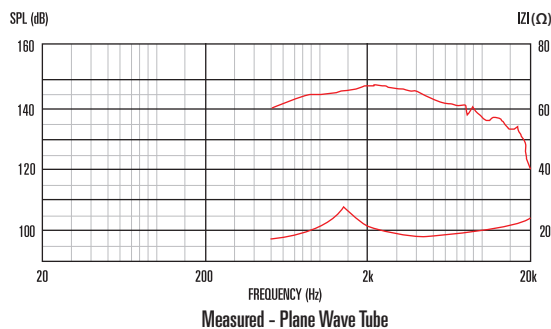
| | |
|------------|------------------------------|
| T5510..... | Diaphragm repair kit (8Ω) |
| T5523..... | Diaphragm repair kit (16Ω) |
| T5951..... | H1SC-9040 Horn (see page 39) |
| T5952..... | H1SC-7050 Horn (see page 38) |



Features

- 1" exit, ferrite magnet compression driver with 1.75" edgewound copper clad aluminium voice coil
- 40Wrms power handling (AES standard) and 110dB sensitivity
- Sound Castle™ clamping ensures even pressure on diaphragm assembly for reduced distortion
- One piece PETP diaphragm and surround
- Finite Element Analysis (FEA) used to optimise both magnet assembly and acoustic design

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2x anechoic environment.



CDX1-1745

Ferrite magnet compression driver

General Specifications

| | |
|--------------------------------------------|---------------------------------|
| Power rating ¹ | 40Wrms |
| Continuous power rating ² | 80W |
| Nominal impedance..... | 8Ω |
| Frequency range..... | 1200-20,000Hz |
| Sensitivity ³ | 110dB |
| Recommended min. crossover (12dB/oct)..... | 2200Hz |
| Voice coil diameter | 44mm/1.75in |
| Voice coil material | Edgewound copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | PETP film |

Mounting Information

| | |
|------------------------------------------------------------|-------------|
| Width..... | 120mm/4.7in |
| Depth | 56mm/2.2in |
| Weight | 2.3kg/5.1lb |
| Fitting . Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD) | |
| Throat exit | 25.4mm/1in |

Packed Dimensions & Weight

| | |
|-------------------------------------|-------------------------|
| Single pack size W x D x H..... | 140mm x 170mm x 70mm |
| ..... | 5.5in x 6.7in x 2.8in |
| Single pack weight..... | 3kg/6.6lb |
| Multi pack (6) size W x D x H... .. | 430mm x 370mm x 90mm |
| ..... | 16.9in x 14.6in x 3.5in |
| Multi pack (6) weight | 14kg/31lb |

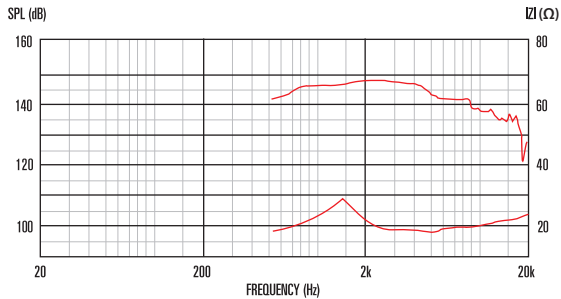
Horns & Repair Kits

| | |
|-------------|--------------------------------------|
| T5510..... | Diaphragm repair kit (8Ω) |
| T5523..... | Diaphragm repair kit (16Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134..... | H1-7050 'No Bell' Horn (see page 36) |

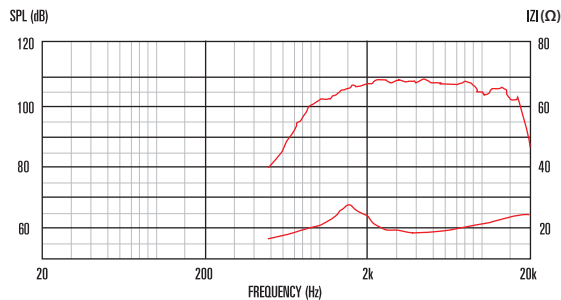
Features

- 1" exit, ferrite magnet compression driver with 1.75" edgewound copper clad aluminium voice coil
- 40Wrms power handling (AES standard) and 110dB sensitivity
- Sound Castle™ clamping ensures even pressure on diaphragm assembly for reduced distortion
- One piece PETP diaphragm and surround
- Finite Element Analysis (FEA) used to optimise both magnet assembly and acoustic design

Frequency Response and Impedance Curves



Measured - Plane Wave Tube



Measured - Exponential Horn 90° x 40° radiation pattern

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



NEW

CDX1-1447

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|-----------------------|
| Power rating ¹ | 35Wrms |
| Continuous power rating ² | 70W |
| Nominal impedance | 8Ω |
| Frequency range | 1500-20,000Hz |
| Sensitivity ³ | 106dB |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 35mm/1.4in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | Polyimide |

Mounting Information

| | |
|-------------------|---------------------------------------|
| Width | 90mm/3.54in |
| Depth | 46.5mm/1.83in |
| Weight | 1kg/2.2lb |
| Fitting | Flange (4 x M6 holes on 76mm/3in PCD) |
| Throat exit | 25mm/1in |

Packed Dimensions & Weight

| | |
|-----------------------------------|--------------------------|
| Single pack size W x D x H | 110mm x 98mm x 81mm |
| ..... | /4.3in x 3.9in x 3.2in |
| Single pack weight | 1.5kg/3.3lb |
| Multi pack (16) size W x D x H .. | 495mm x 495mm x 90mm |
| ..... | /19.5in x 19.5in x 3.5in |
| Multi pack (16) weight | 17kg/37.4lb |

Horns

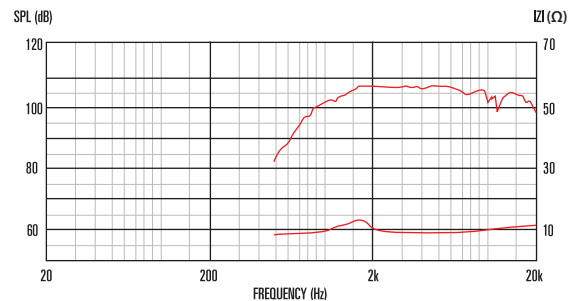
| | |
|-------------|--------------------------------------|
| T5359 | H1-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |



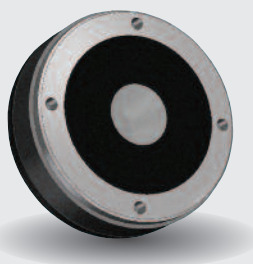
Features

- 1" exit, ferrite magnet compression driver with 1.4-inch diameter copper clad aluminium voice coil
- 35Wrms (AES standard) power handling and 106dB sensitivity
- One piece polyimide diaphragm and surround
- Finite Element Analysis (FEA) techniques used to optimise both magnetic and acoustic design
- Suitable for 2-way and 3-way systems

Frequency Response and Impedance Curves



Measured - Exponential Horn 90° x 40° radiation pattern



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2x anechoic environment.

Axi | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array



CDX1-1440

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|-----------------------|
| Power rating ¹ | 25Wrms |
| Continuous power rating ² | 50W |
| Nominal impedance | 8Ω |
| Frequency range | 1500Hz-20,000Hz |
| Sensitivity ³ | 106dB |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 35mm/1.4in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | Titanium |

Mounting Information

| | |
|-------------------|---------------------------------------|
| Width | 90mm/3.54in |
| Depth | 46.5mm/1.83in |
| Weight | 1kg/2.2lb |
| Fitting | Flange (4 x M6 holes on 76mm/3in PCD) |
| Throat exit | 25mm/1in |

Packed Dimensions & Weight

| | |
|-----------------------------------|-------------------------------|
| Multi pack (16) size W x D x H .. | 495mm x 495mm x 90mm |
| ..... | ...../19.5in x 19.5in x 3.5in |
| Multi pack (16) weight | 17kg/37.4lb |

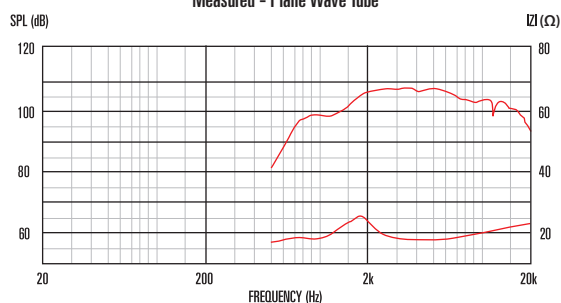
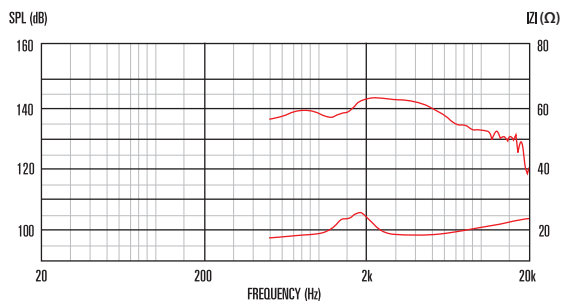
Horns & Repair Kits

| | |
|-------------|--------------------------------------|
| T5580 | Diaphragm repair kit (8Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |

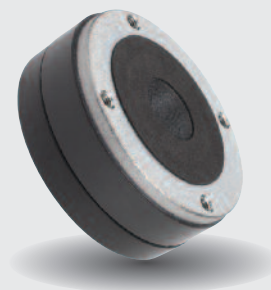
Features

- 1.0" exit, lightweight and compact ferrite magnet compression driver with 1.4" copper clad aluminium voice coil
- 25Wrms (AES standard) power handling and 106dB sensitivity
- One piece titanium diaphragm and surround
- Finite Element Analysis (FEA) techniques used to optimise both magnetic and acoustic design
- Suitable for 2-way and 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1445

Ferrite magnet compression driver

General Specifications

| | |
|-------------------------------------------------|-----------------------|
| Power rating ¹ | 20Wrms |
| Continuous power rating ² | 40W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 106dB |
| Frequency range | 1500-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 35mm/1.4in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | PETP film |

Mounting Information

| | |
|-----------------------|---------------------------------------|
| Width | 90mm/3.54in |
| Depth | 46.5mm/1.83in |
| Weight | 1kg/2.2lb |
| Fitting | Flange (4 x M6 holes on 76mm/3in PCD) |
| Throat exit | 25mm/1in |

Packed Dimensions & Weight

| | |
|------------------------------------------|-------------------------|
| Single pack size W x D x H | 110mm x 98mm x 81mm |
| | 4.3in x 3.9in x 3.2in |
| Single pack weight | 1.5kg/3.3lb |
| Multi pack (16) size W x D x H | 495mm x 495mm x 90mm |
| | 19.5in x 19.5in x 3.5in |
| Multi pack (16) weight | 17kg/37.4lb |

Horns & Repair Kits

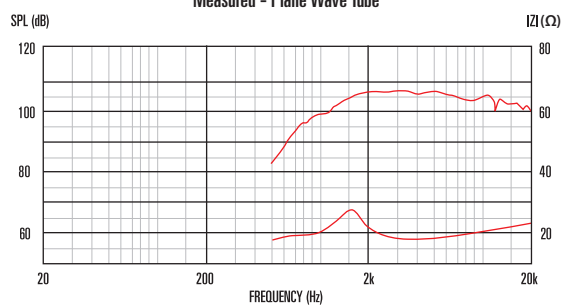
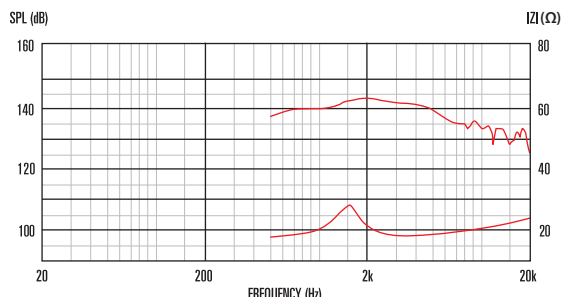
| | |
|-----------------|--------------------------------------|
| T5549 | Diaphragm repair kit (8Ω) |
| T5359 | H1-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |



Features

- 1" exit lightweight and compact ferrite magnet compression driver with 1.4" copper clad aluminium voice coil
- 20Wrms power handling (AES standard) and 106dB sensitivity
- One piece PETP diaphragm and surround
- Finite Element Analysis (FEA) used to optimise both magnet and acoustic design
- Suitable for 2-way and 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1446

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|-------------------------------|
| Power rating ¹ | 20Wrms |
| Continuous power rating ² | 40W |
| Nominal impedance | 8Ω |
| Frequency range | 1500-20,000Hz |
| Sensitivity ³ | 106dB |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 35mm/1.4in |
| Voice coil material | Round Copper Coated Aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | PETP film |

Mounting Information

| | |
|-------------------|------------------------------|
| Width | 90mm/3.54in |
| Depth | 69mm/2.71in |
| Weight | 1.1kg/3.1lb |
| Fitting | Screw (35mm/1.38in diameter) |
| Throat exit | 25.4mm/1.0in |

Packed Dimensions & Weight

| | |
|--------------------------------------|--------------------------|
| Single pack size W x D x H | 110mm x 98mm x 81mm |
| ..... | 4.3in x 3.9in x 3.2in |
| Single pack weight | 1.5kg/3.3lb |
| Multi pack (16) size W x D x H | 480mm x 480mm x 80mm |
| ..... | 18.9in x 18.9in x 3.15in |
| Multi pack (16) weight | 19kg/42lb |

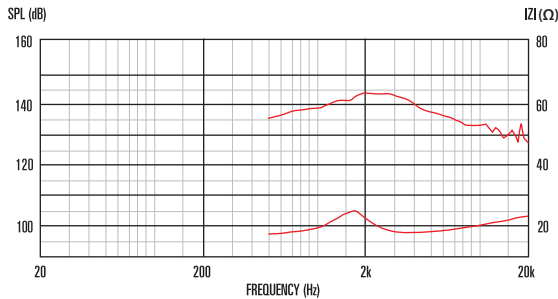
Horns & Repair Kits

| | |
|-------------|------------------------------|
| T5559 | Diaphragm repair kit(8Ω) |
| T5951 | H1SC-9040 Horn (see page 39) |
| T5952 | H1SC-7050 Horn (see page 38) |

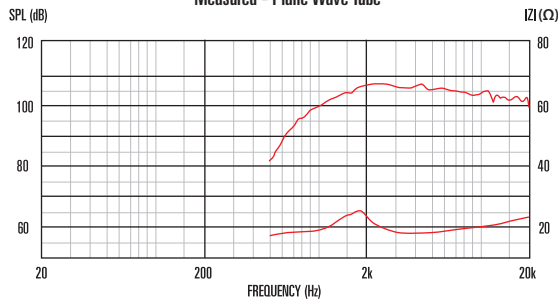
Features

- 1" exit lightweight and compact ferrite magnet compression driver with 1.4" copper clad aluminium voice coil
- 20Wrms power handling (AES standard) and 106dB sensitivity
- 35mm/1.38in screw attachment
- One piece PETP diaphragm and surround
- Finite Element Analysis (FEA) techniques used to optimise both magnetic and acoustic design
- Suitable for 2-way and 3-way systems

Frequency Response and Impedance Curves

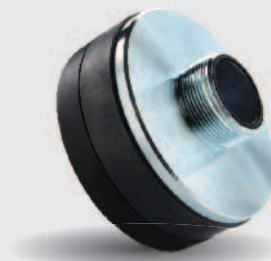


Measured - Plane Wave Tube



Measured - Exponential Horn 90° x 40° radiation pattern

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



CDX1-1010

Ferrite magnet compression driver

General Specifications

| | |
|---------------------------------------------|-----------------------|
| Power rating ¹ | 15Wrms |
| Continuous power rating ² | 30W |
| Nominal impedance | 8Ω |
| Frequency range | 1500-20,000Hz |
| Sensitivity ³ | 107dB |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 25mm/1.0in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | PETP film |

Mounting Information

| | |
|-------------------|------------------------------|
| Width | 90mm/3.54in |
| Depth | 52.8mm/2.08in |
| Weight | 0.83kg/1.8lb |
| Fitting | Screw (35mm/1.38in diameter) |
| Throat exit | 25mm/1.0in |

Packed Dimensions & Weight

| | |
|-----------------------------------|--------------------------|
| Multi pack (16) size W x D x H .. | 480mm x 480mm x 75mm |
| ..... | 18.9in x 18.9in x 2.95in |
| Multi pack (16) weight | 15kg/33lb |

Horns

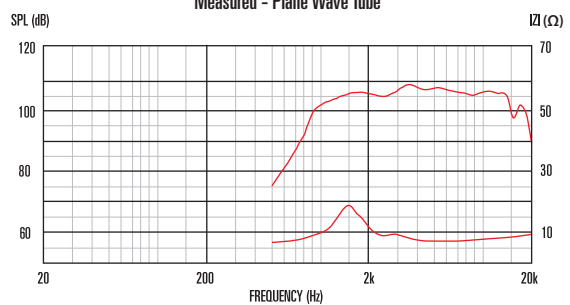
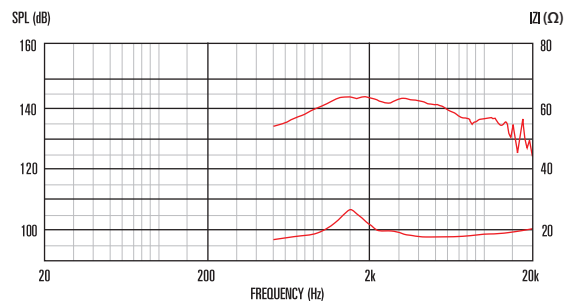
| | |
|-------------|------------------------------|
| T5951 | H1SC-9040 Horn (see page 39) |
| T5952 | H1SC-7050 Horn (see page 38) |



Features

- Lightweight, low-profile ferrite magnet compression driver
- 15Wrms (AES standard) power handling and 107dB sensitivity, 1500-20,000Hz frequency range
- Finite Element Analysis (FEA) techniques used to optimise both magnetic and acoustic design
- Ideal for entry-level two-way sound reinforcement cabinets

Frequency Response and Impedance Curves



1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.



NEW

CDX1-1070

Ferrite magnet compression driver



General Specifications

| | |
|-------------------------------------------------|-----------------------|
| Power rating ¹ | 12Wrms |
| Continuous power rating ² | 24W |
| Nominal impedance | 8Ω |
| Frequency range | 1500-20,000Hz |
| Sensitivity ³ | 106dB |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 25mm/1in |
| Voice coil material | Copper clad aluminium |
| Magnet type | Ferrite |
| Diaphragm and surround material | PETP film |

Mounting Information

| | |
|-----------------------|-------------------------------------|
| Width | 70mm/2.8in |
| Depth | 50mm/2in |
| Weight | 0.7kg/1.5lb |
| Fitting | Flange (2xM6 holes on 76mm/3in PCD) |
| Throat exit | 2.5mm/1in |

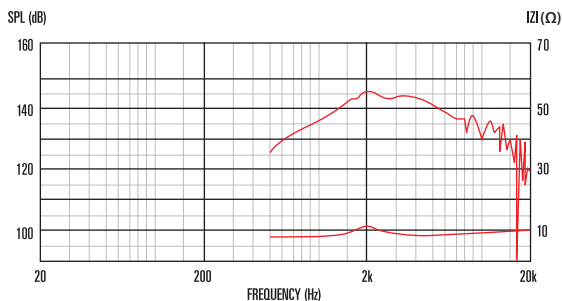
Horns

| | |
|-----------------|--------------------------------------|
| T5359 | H1-9040P Horn (see page 37) |
| T5134 | H1-7050 'No Bell' Horn (see page 36) |

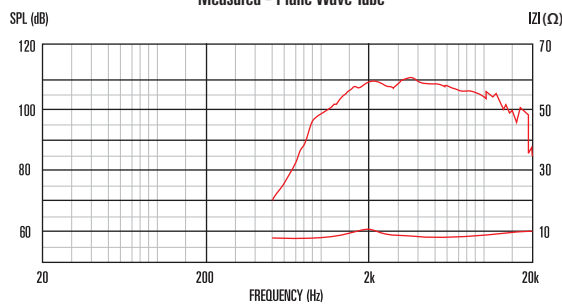
Features

- 1" exit lightweight, low-profile ferrite magnet compression driver with 1" copper clad aluminium voice coil
- 12Wrms (AES standard) power handling and 106dB sensitivity, 1500Hz – 20kHz frequency range
- Single piece PETP film diaphragm and surround
- Finite element analysis (FEA) used to optimise magnetic, acoustic and electromechanical design
- Ideal for two-way sound reinforcement cabinets

Frequency Response and Impedance Curves



Measured - Plane Wave Tube



Measured - Exponential Horn 90° x 40° radiation pattern

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m, using typical horn, in 2x anechoic environment.



AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

H1-7050 'No Bell'

Compression driver horn

General Specifications

| | |
|------------------------|-------------------------------------|
| Horn type | Exponential |
| Radiation pattern | 70° x 50° |
| Horn material | Cast Aluminium |
| Baffle cut-out | ∅155mm/6.1in |
| Driver mounting detail | Flange: 2 M6 holes on 76mm, 3in PCD |
| Throat exit | 25.1mm/1in |
| Height | 180mm/7.1in |
| Width | 180mm/7.1in |
| Depth | 90mm/3.5mm |
| Weight | 0.7kg/1.5lb |

Packed Dimensions & Weight

| | |
|--------------------------------|------------------------|
| Single pack size W x D x H | 190mm x 190mm x 65mm |
| | 7.5in x 7.5in x 2.6in |
| Single pack weight | 1.0kg/2.2lb |
| Multi pack (24) size W x D x H | 390mm x 390mm x 560mm |
| | 15.4in x 15.4in x 22in |
| Multi pack (24) weight | 18kg/39.6lb |

Compatible compression drivers

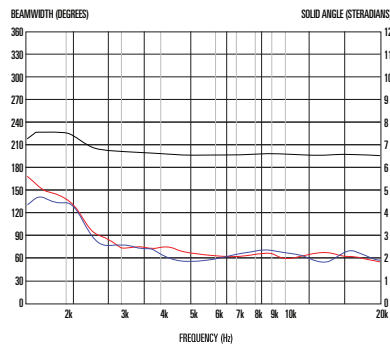
CDX1-1747, CDX1-1742, CDX1-1745, CDX1-1730, CDX1-1720, CDX1-1447, CDX1-1445, CDX1-1440, CDX1-1430, CDX1-1425, CDX1-1415, CDX1-1070



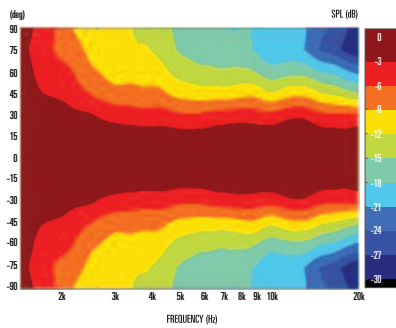
Features

- Cast aluminium horn flare with 1" throat exit
- Compatible for use with bolt (flange) fitted compression drivers
- Features embedded elastomer side panels that make it acoustically inert
- Exponential horn flare with 70° x 50° radiation pattern
- 1.5kHz cut-off frequency

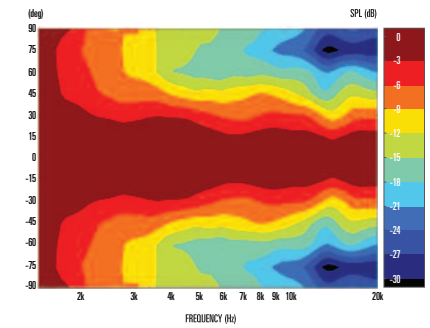
Performance with Typical Compression Driver



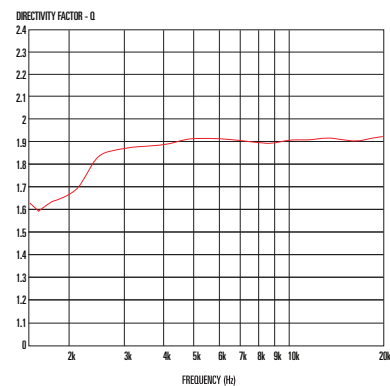
Beamwidth and Solid Angle



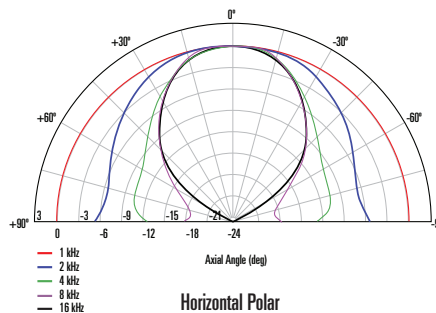
Horizontal Contour



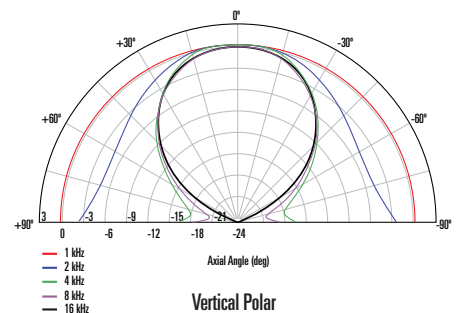
Vertical Contour



Directivity Factor



Horizontal Polar



Vertical Polar



H1-9040P

Compression driver horn

General Specifications

| | |
|------------------------|----------------------------------------------|
| Horn type | Exponential |
| Radiation pattern | 90° x 40° |
| Horn material | ABS |
| Baffle cut-out | 165mm/9in x 260mm/14.2 |
| Driver mounting detail | Flange: 2/3 M6 holes on 76/57mm, 3/2.2in PCD |
| Throat exit | 25.1mm/1in |
| Height | 199mm/7.8in |
| Width | 318mm/12.5in |
| Depth | 208mm/8.2mm |
| Weight | 0.66kg/1.45lb |

Packed Dimensions & Weight

| | |
|--------------------------------|-------------------------|
| Single pack size W x D x H | 350mm x 220mm x 230mm |
| | /13.7in x 4.7in x 4.7in |
| Single pack weight | 1.0kg/3.3lb |
| Multi pack (10) size W x D x H | 650mm x 500mm x 240mm |
| | /25.6in x 20in x 9.4in |
| Multi pack (10) weight | 10kg/22lb |

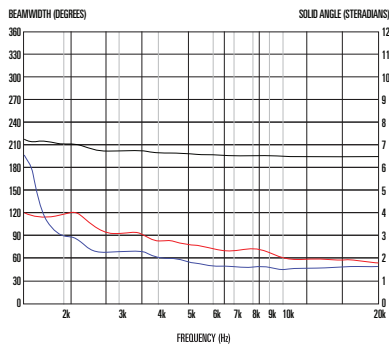
Compatible compression drivers

CDX1-1747, CDX1-1742, CDX1-1745, CDX1-1730, CDX1-1720, CDX1-1447, CDX1-1445, CDX1-1440, CDX1-1430, CDX1-1425, CDX1-1415, CDX1-1070

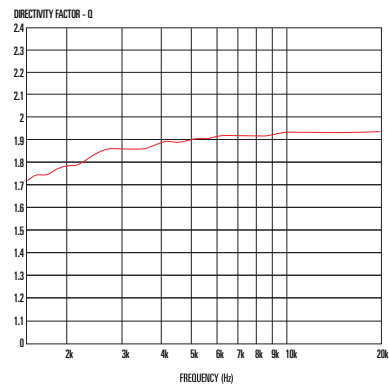
Features

- Lightweight horn flare with 1" throat exit
- Compatible for use with bolt (flange) fitted compression drivers
- Exponential horn flare with 90° x 40° radiation pattern
- 1.5kHz cut-off frequency
- Hard-wearing reinforced polymer

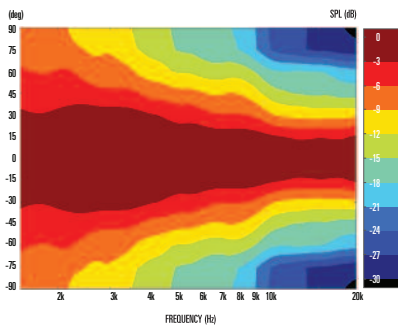
Performance with Typical Compression Driver



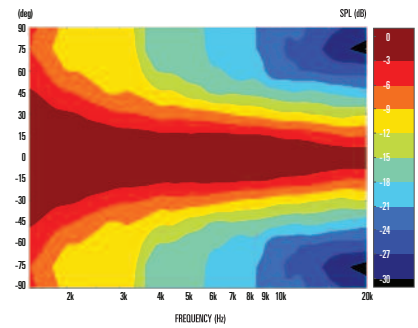
Beamwidth and Solid Angle



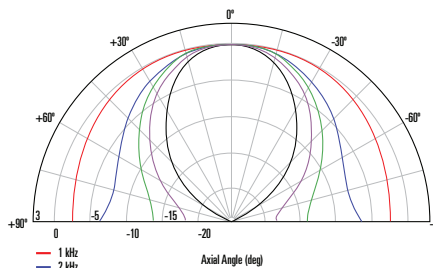
Directivity Factor



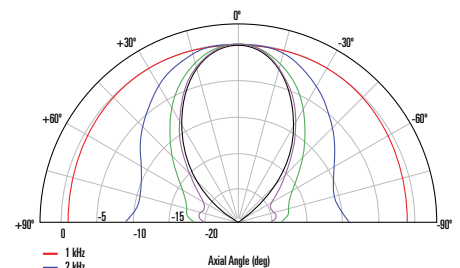
Horizontal Contour



Vertical Contour



Horizontal Polar



Vertical Polar

NEW

H1SC-7050

Compression driver horn

General Specifications

| | |
|------------------------|-------------------------------|
| Horn type | Exponential |
| Radiation pattern | 70° x 50° |
| Horn material | ABS |
| Baffle cut-out | ∅155mm/6.1in |
| Driver mounting detail | Screw (35mm, 1.38in diameter) |
| Throat exit | 25.4mm/1in |
| Height | 178mm/7in |
| Width | 178mm/7in |
| Depth | 88mm/3.46mm |
| Weight | 0.22kg/0.44lb |

Packed Dimensions & Weight

| | |
|----------------------------|-----------------------|
| Single pack size W x D x H | 186mm x 186mm x 102mm |
| | 7.3in x 7.3in x 4in |
| Single pack weight | 0.22kg/0.48lb |

Compatible compression drivers

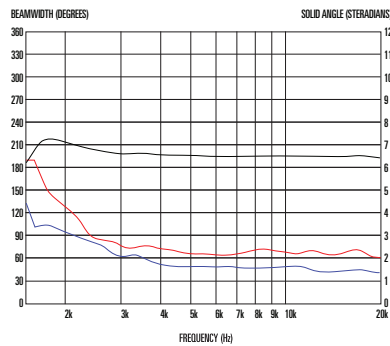
CDX1-1746, CDX1-1731, CDX1-1446, CDX1-1010



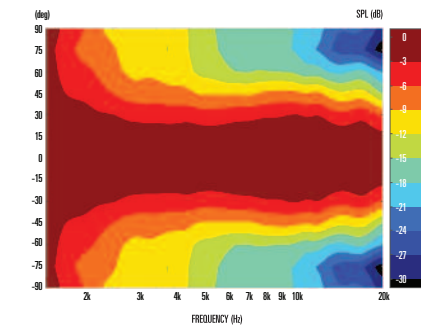
Features

- Lightweight horn flare with 1" throat exit
- Compatible for use with screw on compression drivers
- Exponential horn flare with 70° x 50° radiation pattern
- 1.5kHz cut-off frequency
- Hard-wearing reinforced ABS

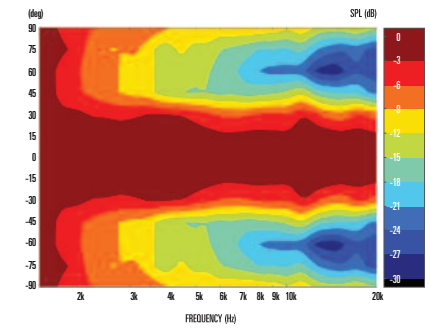
Performance with Typical Compression Driver



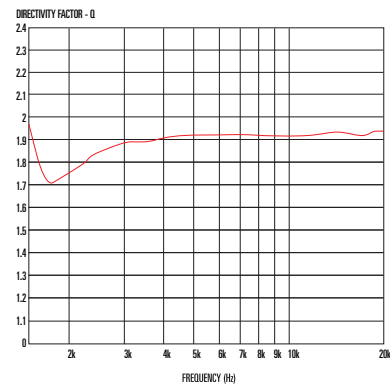
Beamwidth and Solid Angle



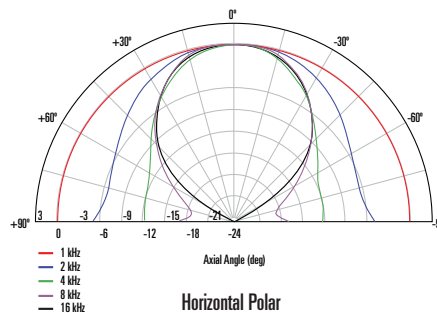
Horizontal Contour



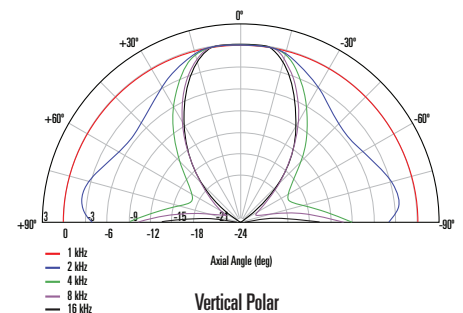
Vertical Contour



Directivity Factor



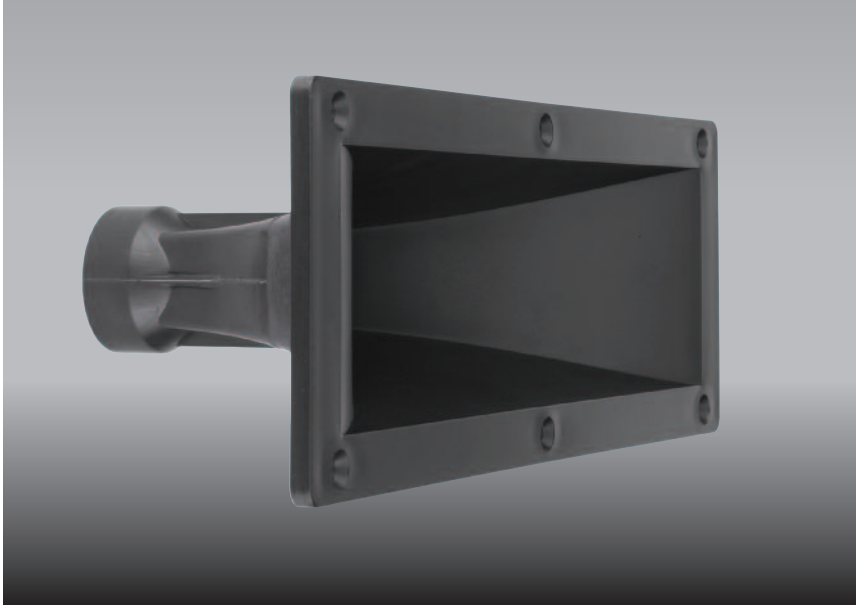
Horizontal Polar



Vertical Polar

H1SC-9040

Compression driver horn



General Specifications

| | |
|------------------------|-------------------------------|
| Horn type | Exponential |
| Radiation pattern | 90° x 40° |
| Horn material | ABS |
| Baffle cut-out | 74mm/2.9in x 248mm/9.8in |
| Driver mounting detail | Screw (35mm, 1.38in diameter) |
| Throat exit | 25.1mm/1in |
| Height | 104mm/4.1in |
| Width | 296mm/11.7in |
| Depth | 145mm/5.7mm |
| Weight | 0.23kg/0.51lb |

Packed Dimensions & Weight

| | |
|----------------------------|-----------------------|
| Single pack size W x D x H | 305mm x 112mm x 156mm |
| | 12in x 4.4in x 6.1in |
| Single pack weight | 0.25kg/0.55lb |

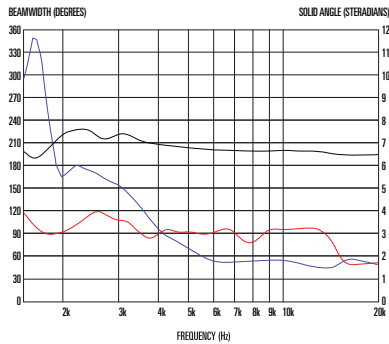
Compatible compression drivers

CDX1-1746, CDX1-1731, CDX1-1446, CDX1-1010

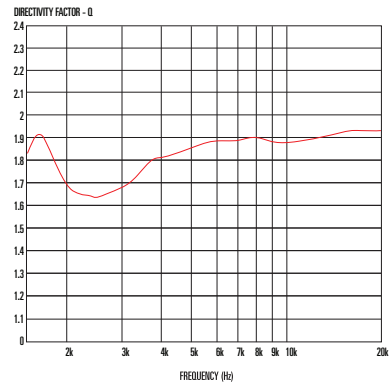
Features

- Lightweight horn flare with 1" throat exit
- Compatible for use with screw on compression drivers
- Exponential horn flare with 90° x 40° radiation pattern
- 1.5kHz cut-off frequency
- Hard-wearing reinforced ABS

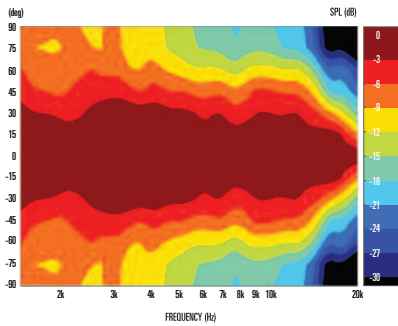
Performance with Typical Compression Driver



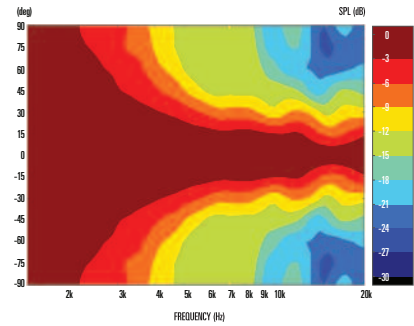
Beamwidth and Solid Angle



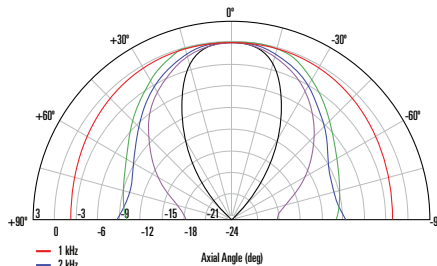
Directivity Factor



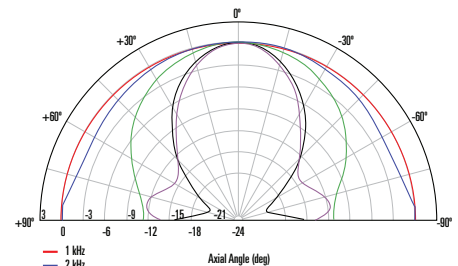
Horizontal Contour



Vertical Contour



Horizontal Polar



Vertical Polar

Coaxial

Ferrite magnet, coaxial drivers

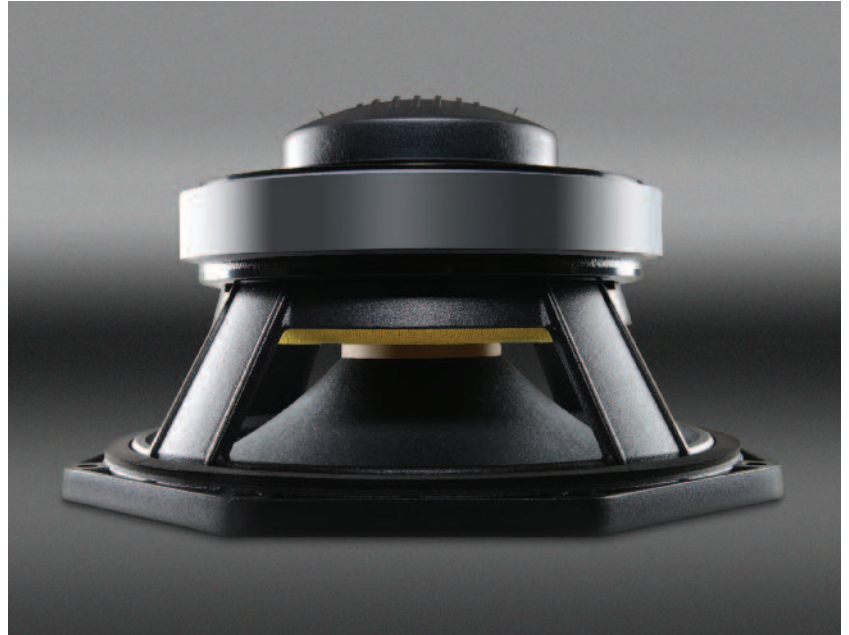
Range Overview

Coaxial loudspeakers offer a full range frequency response in a single self-contained driver. They can provide an effective solution to sound reinforcement applications where size, weight and off-axis response are critical.

Celestion's FTX range of cast aluminium, ferrite magnet coaxial loudspeakers are available in a range of chassis diameters. They utilise a common magnet motor design, where both LF and HF speaker components are powered by one magnet, to deliver unprecedented coherence.

The TF1225CX is a more conventional coaxial loudspeaker that combines a pressed steel TF1225 ferrite LF driver with a modified CDX1-1730 compression driver, mounted to the rear.

In each case, the HF component fires through the centre of the magnet assembly, utilising the LF driver cone as a conical horn.



Coaxial range

| | Nominal Diameter | Power Rating | Impedance | Sensitivity | Frequency Range | LF Voice Coil Diameter | Unit Weight |
|-----------------|------------------|--------------|-----------|-------------|-----------------|------------------------|--------------|
| FTX1530 | 381mm/15in | 400Wrms | 8Ω | 97dB | 40-20,000Hz | 74mm/3in | 6.5kg/14.3lb |
| FTX1225 | 305mm/12in | 300Wrms | 8Ω | 97dB | 50-20,000Hz | 64mm/2.5in | 5.9kg/13.0lb |
| FTX1025 | 254mm/10in | 300Wrms | 8Ω | 96dB | 60-20,000Hz | 64mm/2.5in | 4.5kg/9.9lb |
| FTX0820 | 200mm/8in | 200Wrms | 8Ω | 94dB | 70-20,000Hz | 50mm/2in | 4.1kg/9.0lb |
| FTX0617 | 165mm/6.5in | 150Wrms | 8Ω | 92dB | 110-20,000Hz | 45mm/1.7in | 3kg/6.6lb |
| TF1225CX | 305mm/12in | 250Wrms | 8Ω | 97dB | 50-18,000Hz | 64mm/2.5in | 4.6kg/10.1lb |

See pages 48-49 for additional performance data.

Key Technologies

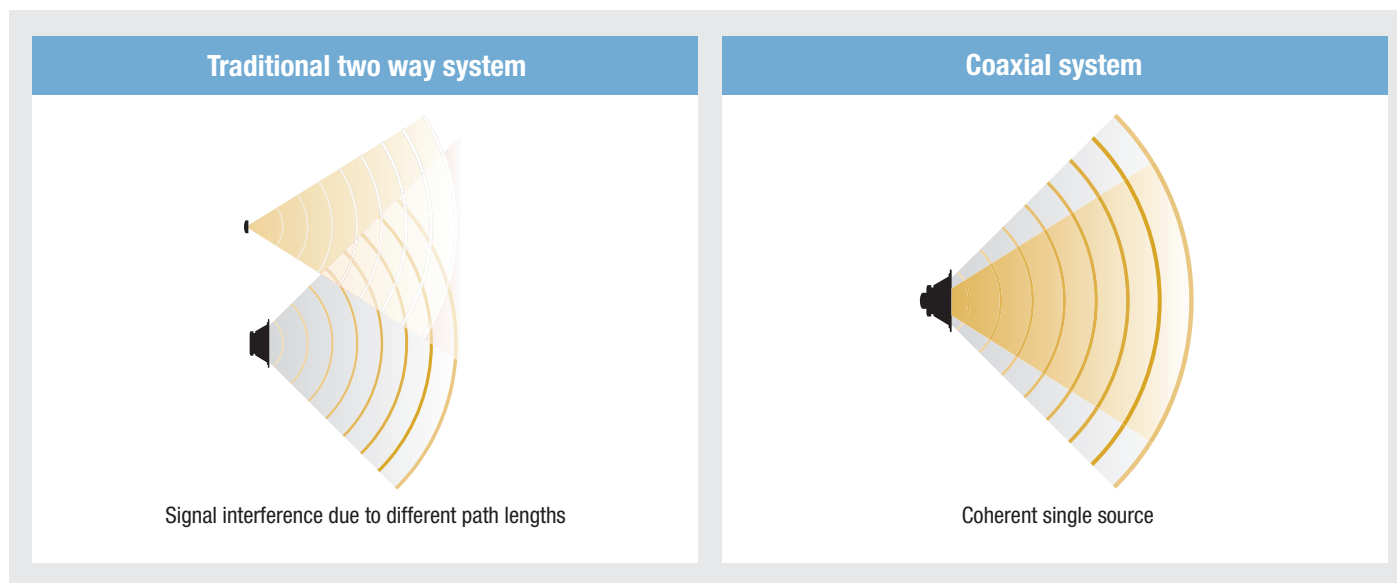
By concentrically aligning low and high frequency drivers, coaxial loudspeakers act as a single source, often providing improvements in signal alignment when compared to a traditional two-way system. Celestion's FTX coaxial range features fully combined LF and HF components that are powered by a Common Magnet Motor Assembly (same magnet for both elements). This enables the voice coils and hence the acoustic centres of the two drivers to be brought closer together, delivering further improvements in signal coherence and time alignment, for a more natural sounding audio reproduction.

The use of a single magnet assembly also means lighter weight and a more compact profile, compared to more conventional dual motor designs.

Each of the models in the FTX coaxial range features a polyimide film HF diaphragm, enabling these devices to provide greater HF power handling. The next-generation Sound Castle™ soft clamping assembly reduces diaphragm stress for decreased distortion and even greater reliability of performance.

Both HF and LF voice coils are edge wound using lightweight copper, copper clad aluminium or pure aluminium. Not only does this increase barrel stiffness, it enables a closer packing density, leading to improved cooling and increased motor strength.

- **HF and LF components combined on the same axis in a single driver for a more coherent signal source**
- **FTX models feature a Common Magnet Motor for a lighter weight, lower profile speaker producing more natural sounding audio**
- **Using LF cone as HF horn for superior off-axis response**
- **Demodulation rings minimise the effects of power compression as well as substantially reducing harmonic and intermodulation distortion associated with voice coil displacement**
- **Voice coils edge wound using lightweight copper clad aluminium for improved cooling and increased motor strength**
- **Polyimide film HF diaphragms (FTX models) deliver greater HF power handling**



NEW

FTX1530

Coaxial, cast aluminium chassis driver

General Specifications: LF

| | |
|--------------------------------------|---------------------------------|
| Size | 381mm/15in |
| Power rating ¹ | 400Wrms |
| Continuous power rating ² | 800W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 97dB |
| Frequency range | 40-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 2.3kg/81oz |
| Coil material | Edgewound copper clad aluminium |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 4mm/0.12in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 16mm/0.55in |

Small Signal Parameters

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 42.6Hz |
| Mms | 65.78g/2.32oz |
| Qms | 4.47 |
| Qes | 0.287 |
| Qts | 0.27 |
| Re | 5.26Ω |
| Vas | 219.68lt/7.75ft ³ |
| Bl | 17.95Tm |
| Cms | 0.212mm/N |
| Rms | 3.939kg/s |
| Le (at 1kHz) | 0.746mH |

General Specifications: HF

| | |
|---------------------------------------|--------------|
| Power rating ⁵ | 75Wrms |
| Continuous power rating ⁶ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity | 106.5dB |
| Frequency range | 800-18,000Hz |
| Recommended min. crossover (12dB/oct) | 1000Hz |
| Voice coil diameter | 75mm/3in |
| Diaphragm and surround material | Titanium |

Mounting Information

| | |
|--------------------------|-------------------------|
| Diameter | 387mm/15.24in |
| Overall depth | 176mm/6.93in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10 x 7mm/0.39 x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 6.5kg/14.3lb |



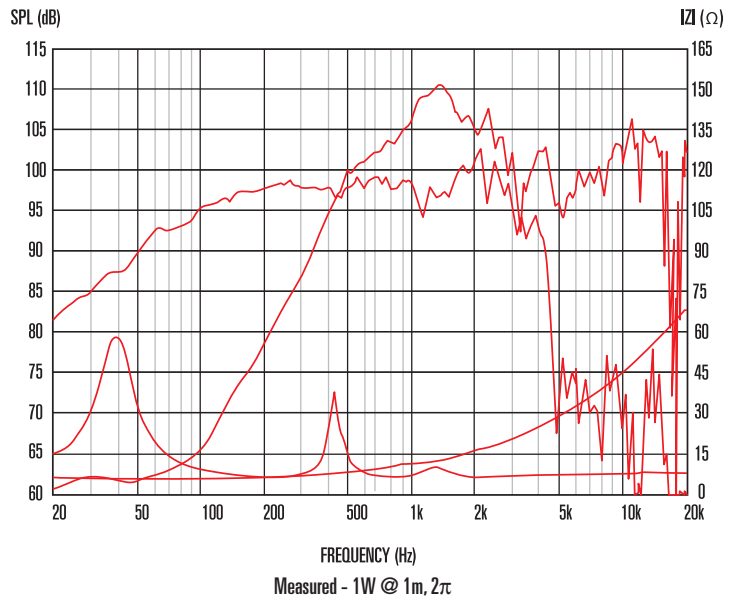
PRELIMINARY INFORMATION



Features

- 15" coaxial loudspeaker with 400Wrms (AES standard) power handling and 97dB sensitivity
- Full range frequency response: 40 – 20,000Hz
- FEA (Finite Element Analysis) optimized ferrite magnet assembly acts as common motor for both LF and HF drivers resulting in enhanced coherence
- Robust cast aluminium chassis is designed to minimize unwanted reflections, further reducing acoustic distortion
- Demodulation ring reduces flux modulation, minimizing electromagnetic distortion
- 3" edgewound copper clad aluminium voice coil wound on high temperature glass fibre former
- 90° nominal HF coverage

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 6. Continuous Power Handling is defined as 3dB greater than the AES rating.



FTX1225

Coaxial, cast aluminium chassis driver

General Specifications: LF

| | |
|--------------------------------------|---------------------------------|
| Size | 305mm/12in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 97dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 2.3kg/81oz |
| Coil material | Edgewound copper clad aluminium |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 4mm/0.16in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 16mm/0.62in |

Small Signal Parameters

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 47.8Hz |
| Mms | 49.44g/1.95oz |
| Qms | 5.714 |
| Qes | 0.409 |
| Qts | 0.382 |
| Re | 5.35Ω |
| Vas | 89.55lt/3.16ft ³ |
| Bl | 13.94Tm |
| Cms | 0.224mm/N |
| Rms | 2.59kg/s |
| Le (at 1kHz) | 0.78mH |

General Specifications: HF

| | |
|---------------------------------------|---------------|
| Power rating ⁵ | 60Wrms |
| Continuous power rating ⁶ | 120W |
| Nominal impedance | 8Ω |
| Sensitivity | 104dB |
| Frequency range | 1000-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2000Hz |
| Voice coil diameter | 45mm/1.75in |
| Diaphragm and surround material | Polyimide |

Mounting Information

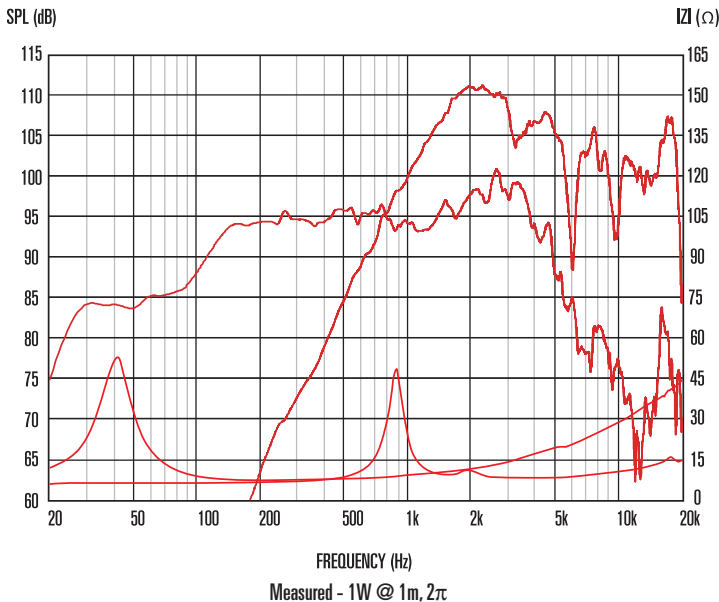
| | |
|--------------------------|-------------------------|
| Overall Diameter | 318mm/12.52in |
| Overall depth | 168mm/6.61in |
| Cut-out diameter | 286mm/11.26in |
| Mounting slot dimensions | 7.5x6.5mm/0.29x0.26in |
| Number of mounting slots | 8 |
| Mounting PCD range | 298-304mm/11.70-11.97in |
| Unit weight | 5.9kg/13.0lb |



Features

- 12" coaxial loudspeaker with 300Wrms (AES standard) power handling and 97dB sensitivity
- Full range frequency response: 50 – 20,000Hz
- FEA (Finite Element Analysis) optimized ferrite magnet assembly acts as common motor for both LF and HF drivers resulting in enhanced coherence
- Robust cast aluminium chassis is designed to minimize unwanted reflections, further reducing acoustic distortion
- Demodulation ring reduces flux modulation, minimizing electromagnetic distortion
- 2.5" edgewound copper clad aluminium voice coil wound on high temperature glass fibre former
- 90° nominal HF coverage

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 6. Continuous Power Handling is defined as 3dB greater than the AES rating.

NEW

FTX1025

Coaxial, cast aluminium chassis driver

General Specifications: LF

| | |
|--------------------------------------|---------------------------------|
| Size | 254mm/10in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 96dB |
| Frequency range | 60-4000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.5kg/54oz |
| Coil material | Edgewound copper clad aluminium |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 3mm/0.12in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 14mm/0.55in |

Small Signal Parameters

| | |
|--------------|-----------------------------|
| D | 0.21m/8.28in |
| Fs | 74.4Hz |
| Mms | 33.92g/1.19oz |
| Qms | 3.422 |
| Qes | 0.555 |
| Qts | 0.478 |
| Re | 4.65Ω |
| Vas | 22.91lt/0.81ft ³ |
| Bl | 11.51Tm |
| Cms | 0.135mm/N |
| Rms | 4.632kg/s |
| Le (at 1kHz) | 0.46mH |

General Specifications: HF

| | |
|---------------------------------------|---------------|
| Power rating ⁵ | 40Wrms |
| Continuous power rating ⁶ | 80W |
| Nominal impedance | 8Ω |
| Sensitivity | 104dB |
| Frequency range | 1000-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2000Hz |
| Voice coil diameter | 34mm/1.4in |
| Diaphragm and surround material | Polyimide |

Mounting Information

| | |
|--------------------------|-----------------------|
| Overall Diameter | 260mm/10.24in |
| Overall depth | 113mm/4.46in |
| Cut-out diameter | 234mm/9.21in |
| Mounting slot dimensions | 7.5x6.5mm/0.29x0.26in |
| Number of mounting slots | 8 |
| Mounting PCD range | 244-247mm/9.6-9.7in |
| Unit weight | 4.5kg/9.9lb |



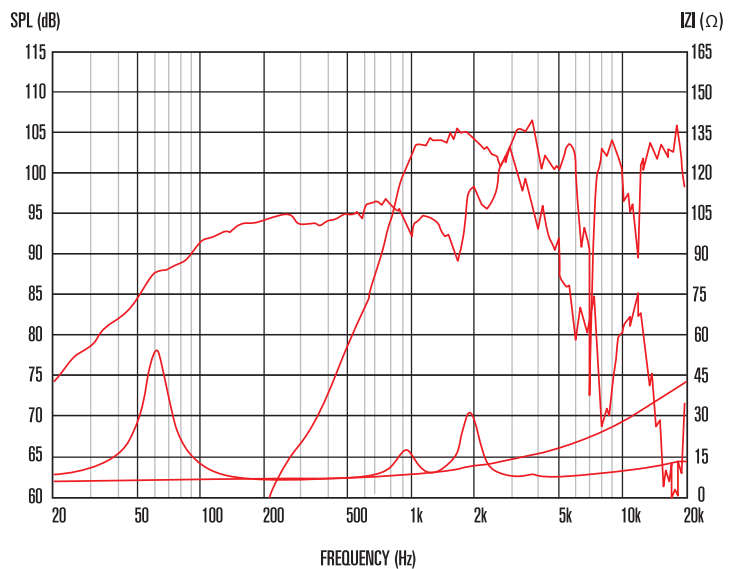
PRELIMINARY INFORMATION



Features

- 10" coaxial loudspeaker with 300Wrms (AES standard) power handling and 96dB sensitivity
- Full range frequency response: 60 – 20,000Hz
- FEA (Finite Element Analysis) optimized ferrite magnet assembly acts as common motor for both LF and HF drivers resulting in enhanced coherence
- Robust cast aluminium chassis is designed to minimize unwanted reflections, further reducing acoustic distortion
- Demodulation ring reduces flux modulation, minimizing electromagnetic distortion
- 2.5" edgewound copper clad aluminium voice coil wound on high temperature glass fibre former

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 6. Continuous Power Handling is defined as 3dB greater than the AES rating.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array



FTX0820

Coaxial, cast aluminium chassis driver

General Specifications: LF

| | |
|--------------------------------------|---------------------|
| Size | 200mm/8in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 94dB |
| Frequency range | 70-4000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.5kg/54oz |
| Coil material | Edgewound copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 2mm/0.08in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters

| | |
|--------------|-----------------------------|
| D | 0.17m/6.69in |
| Fs | 63.9Hz |
| Mms | 26.07g/0.92oz |
| Qms | 4.709 |
| Qes | 0.242 |
| Qts | 0.231 |
| Re | 5.9Ω |
| Vas | 21.38lt/0.75ft ³ |
| Bl | 15.97Tm |
| Cms | 0.238mm/N |
| Rms | 2.222kg/s |
| Le (at 1kHz) | 0.84mH |

General Specifications: HF

| | |
|---------------------------------------|---------------|
| Power rating ⁵ | 40Wrms |
| Continuous power rating ⁶ | 80W |
| Nominal impedance | 8Ω |
| Sensitivity | 103dB |
| Frequency range | 1500-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 34mm/1.4in |
| Diaphragm and surround material | Polyimide |

Mounting Information

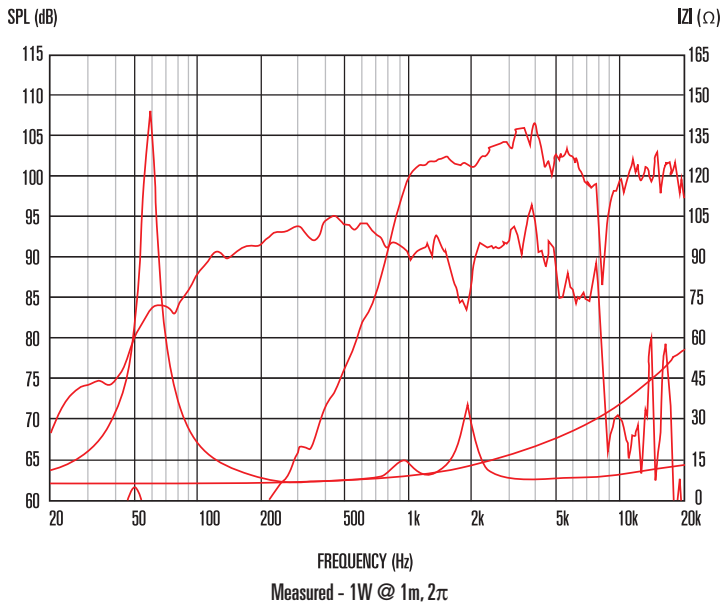
| | |
|--------------------------|---------------|
| Overall Diameter | 225mm/8.86in |
| Overall depth | 114mm/4.49in |
| Cut-out diameter | 187mm/7.36in |
| Mounting slot dimensions | ø6.5mm/0.26in |
| Number of mounting slots | 8 |
| Mounting PCD range | 210mm/8.27in |
| Unit weight | 4.1kg/9.0lb |



Features

- 8" coaxial loudspeaker providing 200Wrms (AES standard) power handling and 94dB sensitivity
- Full range frequency response: 70 – 20,000Hz
- FEA (Finite Element Analysis) optimized ferrite magnet assembly acts as common motor for both LF and HF drivers resulting in enhanced coherence
- Robust cast aluminium chassis is designed to minimize unwanted reflections, further reducing acoustic distortion
- Demodulation ring reduces flux modulation, minimizing electromagnetic distortion
- 2" edgewound copper voice coil wound on high temperature glass fibre former
- 100° nominal HF coverage

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 6. Continuous Power Handling is defined as 3dB greater than the AES rating.

FTX0617

Coaxial, cast aluminium chassis driver

General Specifications: LF

| | |
|--------------------------------------|---------------------------------|
| Size | 165mm/6.5in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 92dB |
| Frequency range | 110-4000Hz |
| Voice coil diameter | 44mm/1.75in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 0.88kg/31oz |
| Coil material | Edgewound copper clad aluminium |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 2mm/0.08in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 10mm/0.4in |

Small Signal Parameters

| | |
|--------------|-------------------------|
| D | 0.14m/5.51in |
| Fs | 105.3Hz |
| Mms | 10.94g/0.39oz |
| Qms | 3.851 |
| Qes | 1.021 |
| Qts | 0.807 |
| Re | 5.57Ω |
| Vas | 7lt/0.25ft ³ |
| Bl | 6.28Tm |
| Cms | 0.209mm/N |
| Rms | 1.88kg/s |
| Le (at 1kHz) | 0.28mH |

General Specifications: HF

| | |
|---------------------------------------|---------------|
| Power rating ⁵ | 40Wrms |
| Continuous power rating ⁶ | 80W |
| Nominal impedance | 8Ω |
| Sensitivity | 103dB |
| Frequency range | 1500-20,000Hz |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 34mm/1.4in |
| Diaphragm and surround material | Polyimide |

Mounting Information

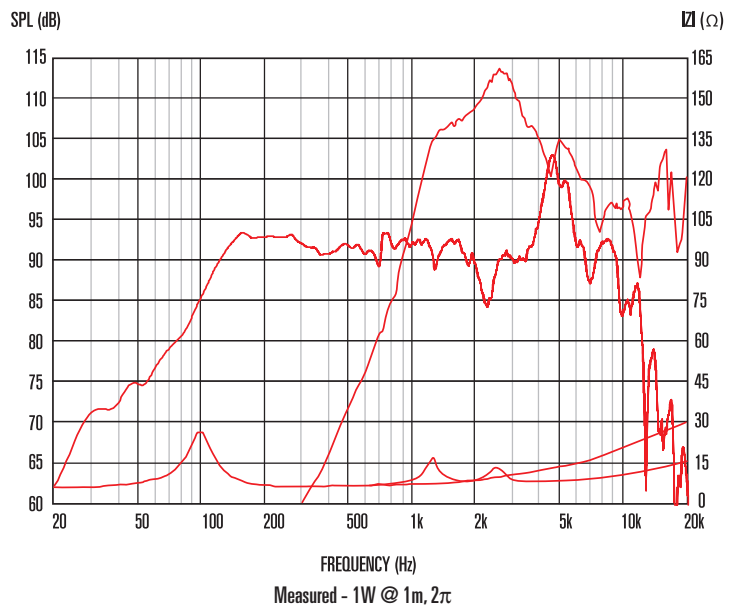
| | |
|--------------------------|--------------------------------------|
| Overall Diameter | Max: 189mm/7.44in; Min: 162mm/6.38in |
| Overall depth | 93mm/3.66in |
| Cut-out diameter | 150mm/5.9in |
| Mounting slot dimensions | 6.5mmx5.5mm/0.26inx0.22in |
| Number of mounting slots | 4 |
| Mounting PCD range | 173.5mm/6.83in |
| Unit weight | 3kg/6.6lb |



Features

- 6.5" coaxial loudspeaker providing 150Wrms (AES standard) power handling and 92dB sensitivity
- Full range frequency response: 110 – 20,000Hz
- FEA (Finite Element Analysis) optimized ferrite magnet assembly acts as common motor for both LF and HF drivers resulting in enhanced coherence
- Robust cast aluminium chassis is designed to minimize unwanted reflections, further reducing acoustic distortion
- Demodulation ring reduces flux modulation, minimizing electromagnetic distortion
- 2" edgewound copper clad aluminium voice coil wound on high temperature glass fibre former
- 100° nominal HF coverage

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Handling is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m in 2π anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
6. Continuous Power Handling is defined as 3dB greater than the AES rating.



TF1225CX

Coaxial, pressed steel chassis driver

General Specifications: LF

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 97dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.2kg/42oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 3.25mm/0.0128in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 14.5mm/0.57in |

Small Signal Parameters

| | |
|--------------|-----------------------------|
| D | 0.26m/0.24in |
| Fs | 71.4Hz |
| Mms | 49.68g/1.75oz |
| Qms | 3.824 |
| Qes | 0.480 |
| Qts | 0.426 |
| Re | 5.57Ω |
| Vas | 39.91lt/1.41ft ³ |
| Bl | 16.08Tm |
| Cms | 0.10mm/N |
| Rms | 5.83kg/s |
| Le (at 1kHz) | 0.23mH |

General Specifications: HF

| | |
|---------------------------------------|---------------|
| Power rating ⁵ | 40Wrms |
| Continuous power rating ⁶ | 80W |
| Nominal impedance | 8Ω |
| Sensitivity | 110dB |
| Frequency range | 1200-18,000Hz |
| Recommended min. crossover (12dB/oct) | 2200Hz |
| Voice coil diameter | 45mm/1.75in |
| Magnet type | Neodymium |
| Diaphragm and surround material | PETP film |

Mounting Information

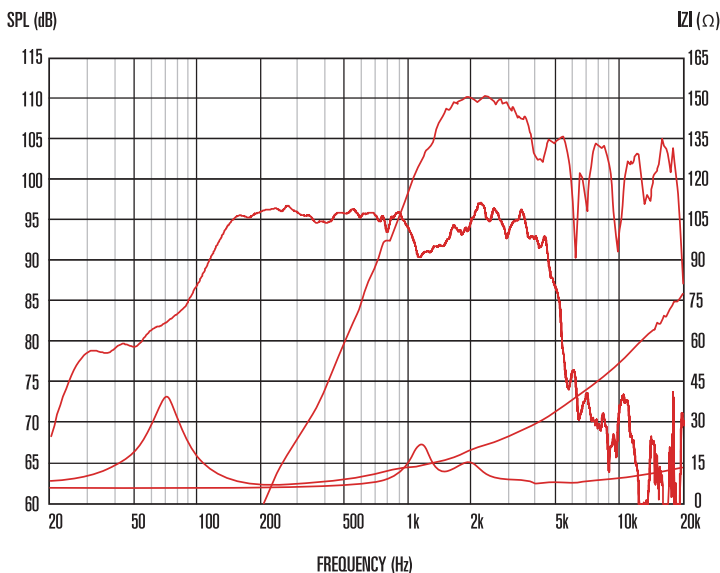
| | |
|--------------------------|----------------|
| Overall diameter | 309mm/12.2in |
| Overall depth | 172mm/6.77in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 4.6kg/10.1lb |



Features

- 12" coaxial loudspeaker with 50-18,000Hz response
- 250Wrms (AES standard) power handling and 97dB sensitivity
- 2.5" high temperature copper voice coil wound on polyimide for increased reliability
- Robust and reliable pressed steel frame ferrite magnet LF driver
- Compact, lightweight neodymium compression driver - 80° nominal coverage

Frequency Response and Impedance Curves



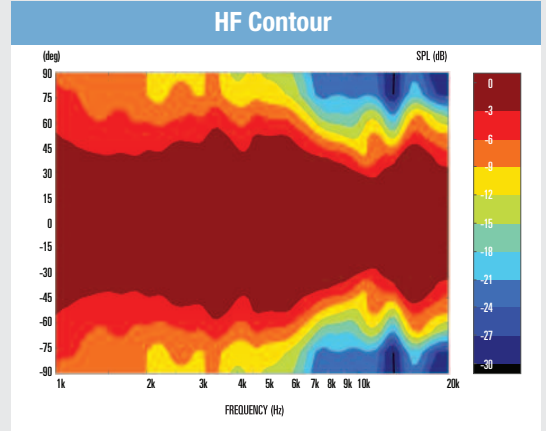
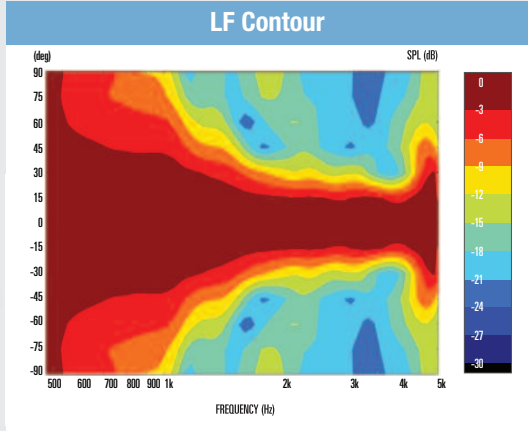
Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
 6. Continuous Power Handling is defined as 3dB greater than the AES rating.

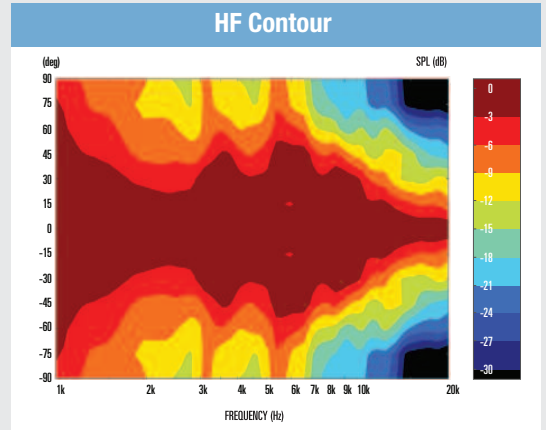
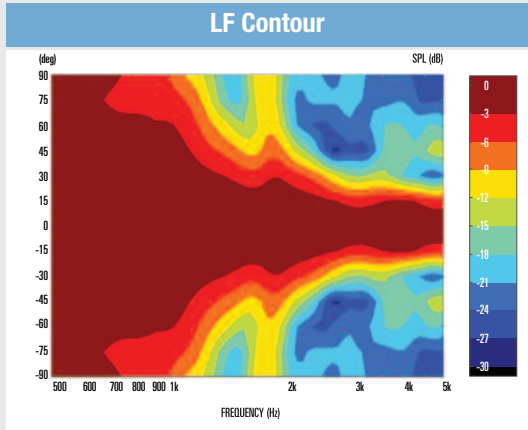
Coaxial

Ferrite magnet, coaxial drivers

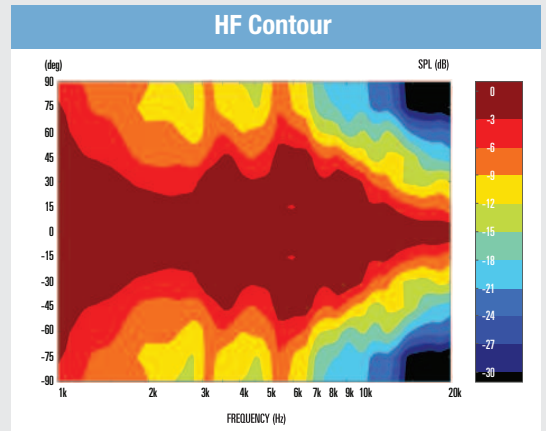
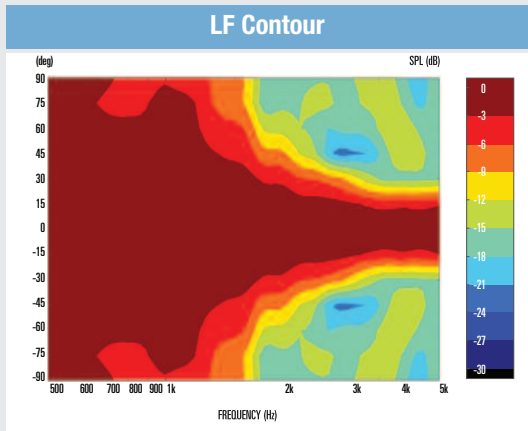
FTX1530



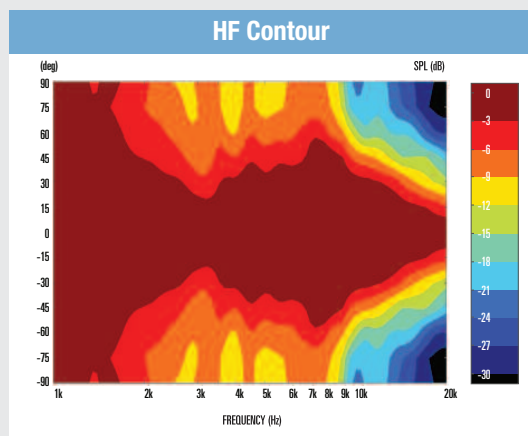
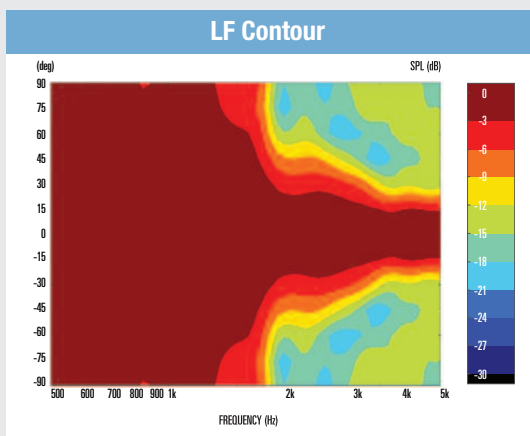
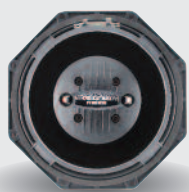
FTX1225



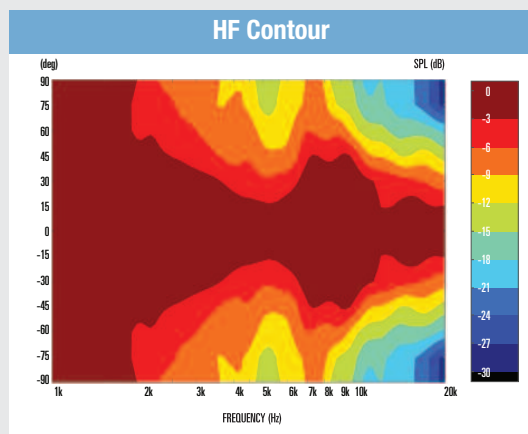
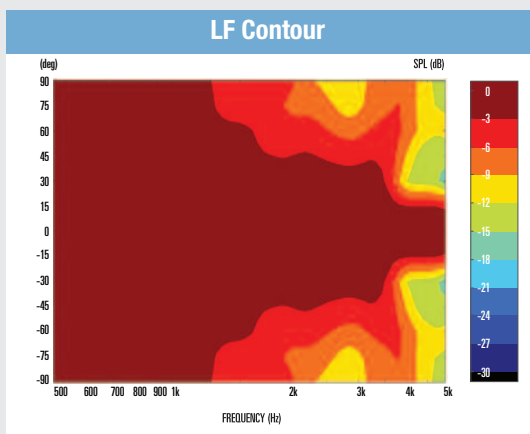
FTX1025



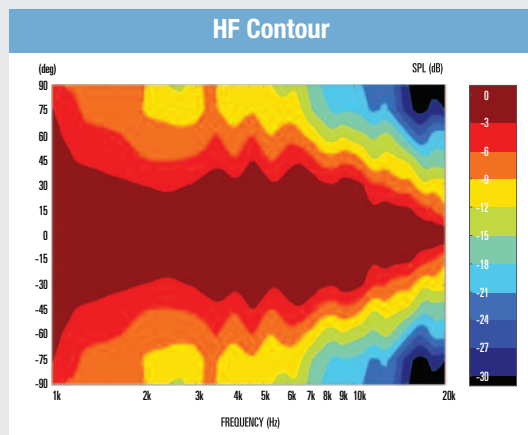
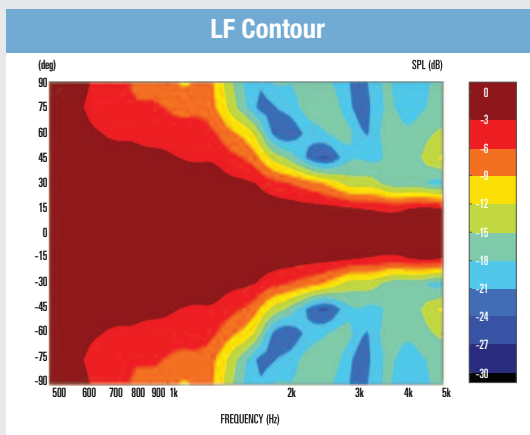
FTX0820



FTX0617



TF1225CX



Measured at 1W, 1m in 2x anechoic environment.

LF Cast Chassis Neo

Neodymium magnet cast aluminium chassis drivers

Range Overview

With a weight-optimised, neodymium magnet motor assembly and cast aluminium chassis, the Celestion NTR range of bass and mid-bass drivers extends from compact 6.5" models to a very high power 21" subwoofer, and is targeted at medium and large scale sound reinforcement systems and tour sound applications.

Alongside a particularly high power to weight ratio, the NTR's compact chassis designs are well suited to close mounting in arrays. The range also incorporates larger format speakers for bass and sub-bass applications.

Like all Celestion professional loudspeakers, NTR drivers are designed with extensive use of advanced FEA modelling techniques to achieve a number of important performance advantages.



LF Neo Range

| | Nominal Diameter | Power Rating* | Impedance | Sensitivity | Frequency Range | Voice Coil Diameter | Unit Weight |
|---------------------|------------------|---------------|-----------|-------------|-----------------|---------------------|---------------|
| NTR21-5010JD | 530mm/21in | 1600Wrms | 8Ω | 98dB | 30-3000Hz | 125mm/5in | 12.8kg/28.2lb |
| NTR15-3018E | 381mm/15in | 400Wrms | 8Ω | 98dB | 30-3000Hz | 75mm/3in | 4.0kg/8.8lb |
| NTR12-3018D | 305mm/12in | 350Wrms | 8Ω | 98dB | 50-4000Hz | 75mm/3in | 2.6kg/5.7lb |
| NTR10-2520E | 254mm/10in | 250Wrms | 8Ω | 96dB | 50-3000Hz | 64mm/2.5in | 2.2kg/4.89lb |
| NTR10-2520D | 254mm/10in | 250Wrms | 8Ω | 96dB | 55-3500Hz | 64mm/2.5in | 2.2kg/4.89lb |
| NTR08-2011D | 203mm/8in | 200Wrms | 8/16Ω | 92dB | 70-6000Hz | 50mm/2in | 1.52kg/3.34lb |
| NTR08-2009D | 203mm/8in | 200Wrms | 8/16Ω | 94.5dB | 70-5000Hz | 50mm/2in | 2.8kg/6.16lb |
| NTR06-17X | 165mm/6.5in | 150Wrms | 8Ω | 93.5dB | 70-5000Hz | 45mm/1.75in | 1.2kg/2.64lb |
| NTR06-1705D | 165mm/6.5in | 150Wrms | 8/16Ω | 90dB | 70-7000Hz | 45mm/1.75in | 0.95kg/2.09lb |
| NTR06-1705B | 165mm/6.5in | 150Wrms | 8Ω | 95dB | 150-7000Hz | 45mm/1.75in | 0.85kg/1.87lb |

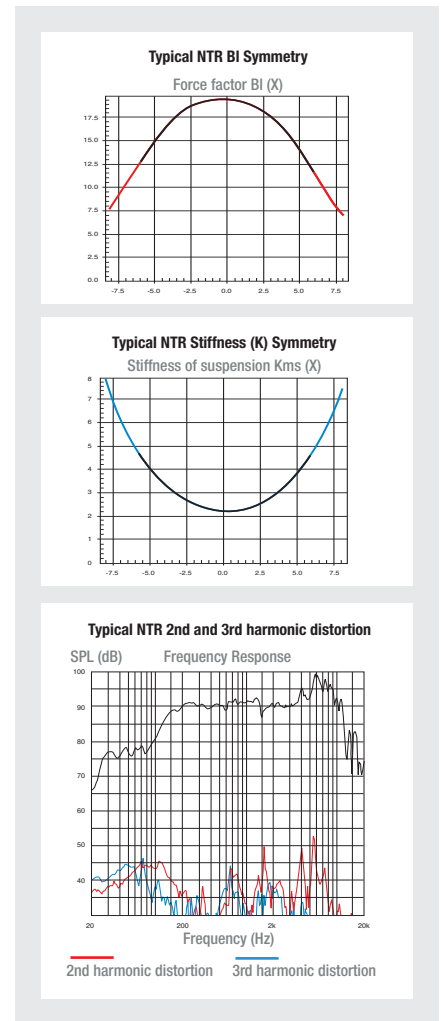
*AES Standard

Key Technologies

With particular focus on linear excursion via Finite Element Analysis (FEA) optimised suspension geometry and magnet topology, NTR provides application-specific control delivering greater low frequency output, significantly reduced distortion and increased longevity.

In addition to BI and stiffness (K) symmetry, NTR also achieves low thermal compression and distortion through intelligent heat management. This is achieved by smart chassis design combined with vented magnet assemblies to dissipate heat quickly. Features also include:

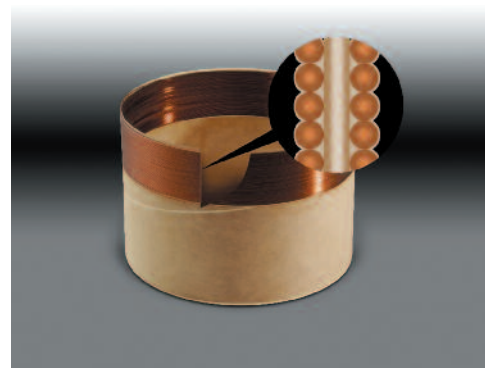
- High power to weight ratio
- High temperature, 'Inside/Outside' voice coils for further thermal control
- Smaller format units feature compact chassis designs for close coupling
- Up to 21" diameter speakers available for very high power sub-bass performance
- Rigid cast aluminium chassis for maximum mechanical integrity
- Double suspensions deliver extra excursion control



Advanced heat dispersion system



Smart chassis and magnet assembly design increases cooling efficiency



Voice coil wound 'Inside/Outside' for more effective cooling

NTR21-5010JD

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------------|
| Nominal diameter | 530mm/21in |
| Power rating ¹ | 1600Wrms |
| Continuous power rating ² | 3200W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 98dB |
| Frequency range | 30-3000Hz |
| Voice coil diameter | 125mm/5in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Carbon fibre loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 9mm/0.35in |
| Gap depth | 12mm/0.47in |
| Voice coil winding width | 30mm/1.18in |

Small Signal Parameters⁵

| | |
|--------------|-------------------------------|
| D | 0.46m/18.11in |
| Fs | 30.2Hz |
| Mms | 318.85g/11.26oz |
| Qms | 5.231 |
| Qes | 0.309 |
| Qts | 0.291 |
| Re | 5.36Ω |
| Vas | 341.43lt/12.05ft ³ |
| Bl | 32.93Tm |
| Cms | 0.087mm/N |
| Rms | 11.55kg/s |
| Le (at 1kHz) | 2.063mH |

Mounting Information

| | |
|--------------------------|--------------------------------|
| Overall diameter | 550mm/21.65in |
| Overall depth | 254mm/10in |
| Cut-out diameter | 492mm/19.37in |
| Mounting slot dimensions | 12.5mm x 8.5mm/0.49in x 0.33in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 520-528mm/20.5-20.8in |
| Unit weight | 12.8kg/28.2lb |

Packed Dimensions & Weight

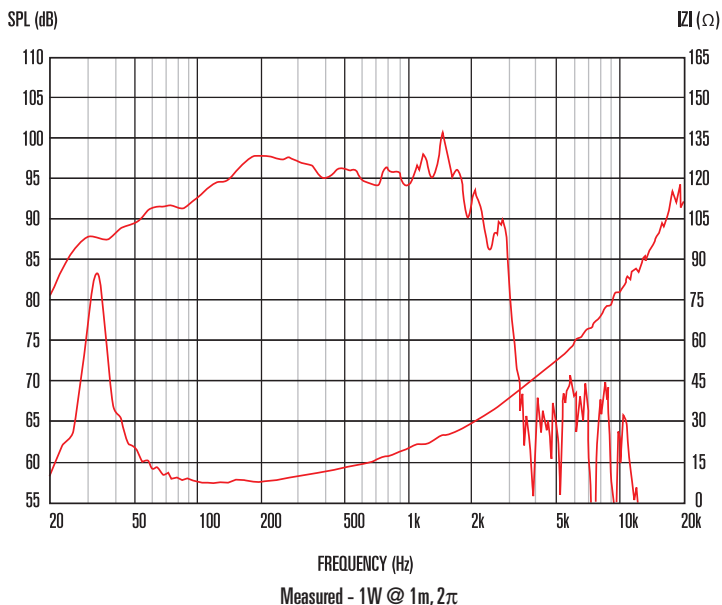
| | |
|----------------------------|---------------------------|
| Single pack size W x D x H | 575mm x 575mm x 280mm |
| | /22.6in x 22.6in x 11.0in |
| Single pack weight | 13.2kg/29lb |



Features

- **21" neodymium subwoofer offers 1600Wrms (AES standard) power handling and 98dB sensitivity**
- **5" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression**
- **Double suspension and a "multi-roll" surround provide exceptional linearity at extremes of cone excursion**
- **Rigid lightweight carbon fibre loaded cone delivers improved performance and faster response**
- **Intelligent heat management in both chassis and magnet assembly design further minimizes distortion**

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



NTR15-3018E

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 450Wrms |
| Continuous power rating ² | 900W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 98dB |
| Frequency range | 30-3000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Flat copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper |
| | with weather-resistant coating |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 5mm/0.20in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 20mm/0.79in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.33m/12.9in |
| Fs | 34.6Hz |
| Mms | 97.24g/3.43oz |
| Qms | 3.856 |
| Qes | 0.262 |
| Qts | 0.246 |
| Re | 5.58Ω |
| Vas | 225.71lt/7.97ft ³ |
| Bl | 21.2Tm |
| Cms | 0.218mm/N |
| Rms | 5.477kg/s |
| Le (at 1kHz) | 1.18mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Overall diameter | 386mm/15.2in |
| Overall depth | 162mm/6.38in |
| Cut-out diameter | 351mm/13.8in |
| Mounting slot dimensions | 10mm x 7mm/0.4in x 0.27in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 367-373mm/14.4-14.7in |
| Unit weight | 4.0kg/8.8lb |

Packed Dimensions & Weight

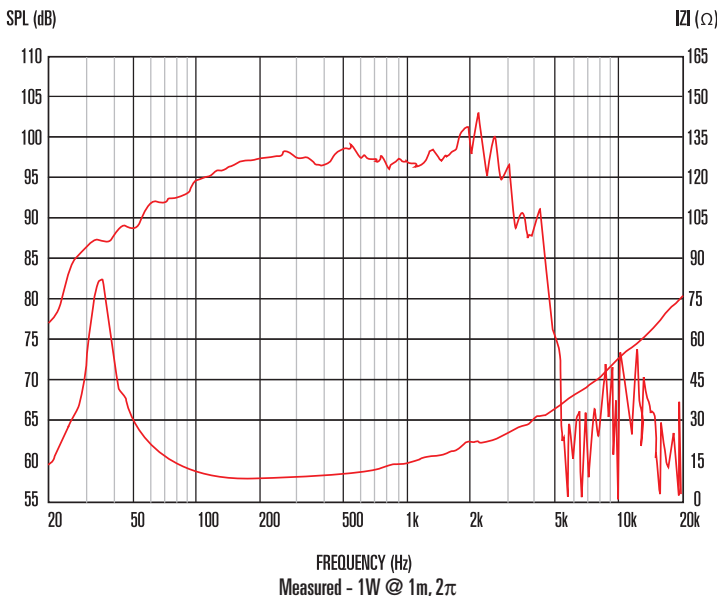
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | /17.1in x 17.1in x 7.9in |
| Single pack weight | 5.0kg/11lb |
| Multi pack (36) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (36) weight | 166kg/365lb |



Features

- 15" neodymium woofer offers 450Wrms (AES standard) power handling and 98dB sensitivity
- 3" edgewound voice coil for higher efficiency and excellent distortion control
- "M-Roll" surround with Flexirol™ technology providing progressive excursion control, yielding a smooth response even at extremes of frequency range
- Extremely lightweight design combined with a highly efficient magnet assembly results in exceptional power-to-weight ratio
- Intelligent heat management in both chassis and magnet assembly design further minimizes distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π; anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NTR12-3018D

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 350Wrms |
| Continuous power rating ² | 700W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 98dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth sealed |
| Suspension | Single |
| Xmax ⁴ | 4mm/0.16in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.26m/10.24in |
| Fs | 58.7Hz |
| Mms | 57.21g/2.02oz |
| Qms | 2.514 |
| Qes | 0.326 |
| Qts | 0.288 |
| Re | 5.89Ω |
| Vas | 51.21lt/1.808ft ³ |
| Bl | 19.54Tm |
| Cms | 0.128mm/N |
| Rms | 8.397kg/s |
| Le (at 1kHz) | 0.78mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 318mm/12.5in |
| Overall depth | 137mm/5.39in |
| Cut-out diameter | 286mm/11.26in |
| Mounting slot dimensions | 9.5mm x 6.5mm/0.37in x 0.26in |
| Number of mounting slots | 8 |
| Mounting PCD range | 298-304mm/11.7-12.0in |
| Unit weight | 2.6kg/5.7lb |

Packed Dimensions & Weight

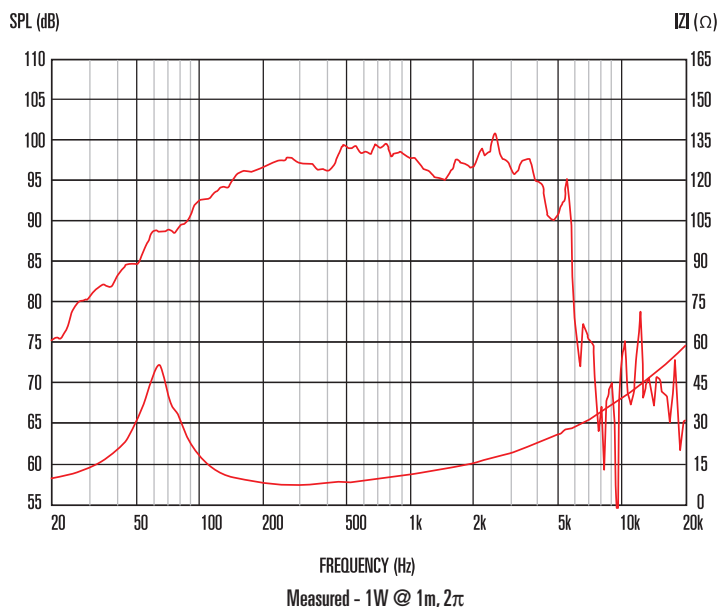
| | |
|----------------------------|---------------------------|
| Single pack size W x D x H | 350mm x 350mm x 185mm |
| | /13.8in x 13.8in x 7.3in |
| Single pack weight | 3kg/6.6lb |
| Multi pack (60) size | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 178kg/392lb |



Features

- **12" neodymium woofer offers 350Wrms (AES standard) power handling and 98dB sensitivity**
- **3" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression**
- **"M-roll" surround provides progressive excursion control, yielding a smooth response even at extremes of frequency range**
- **Extremely lightweight design combined with a highly efficient magnet assembly results in exceptional power-to-weight ratio**
- **Intelligent heat management in both chassis and magnet assembly design further minimises distortion**

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 30dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



NTR10-2520E

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 96dB |
| Frequency range | 50-3000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 5mm/0.20in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 17.5mm/0.69in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.21m/8.27in |
| Fs | 52.4Hz |
| Mms | 46.43g/1.64oz |
| Qms | 3.008 |
| Qes | 0.334 |
| Qts | 0.301 |
| Re | 5.63Ω |
| Vas | 33.78lt/1.192ft ³ |
| Bl | 16.05Tm |
| Cms | 0.199mm/N |
| Rms | 5.078kg/s |
| Le (at 1kHz) | 0.71mH |

Mounting Information

| | |
|--------------------------|------------------------------|
| Overall diameter | 260mm/10.24in |
| Overall depth | 113mm/4.45in |
| Cut-out diameter | 234mm/9.21in |
| Mounting slot dimensions | 7.5mm x 6.5mm/0.3in x 0.26in |
| Number of mounting slots | 4 |
| Mounting slot PCD range | 244-247mm/9.6-9.7in |
| Unit weight | 2.2kg/4.89lb |

Packed Dimensions & Weight

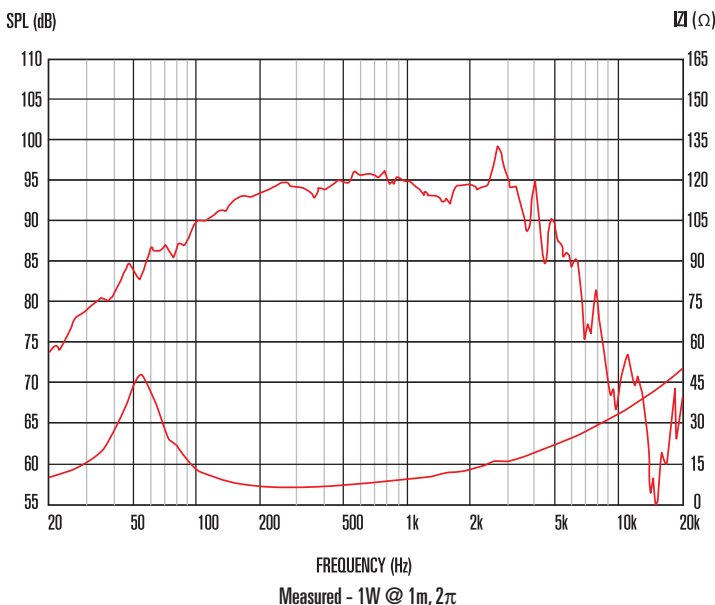
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 305mm x 305mm x 150mm |
| | /12.0in x 12.0in x 5.9in |
| Single pack weight | 2.5kg/5.5lb |
| Multi pack (96) size W x D x H | 1080mm x 880mm x 840mm |
| | /42.5in x 34.6in x 33.1in |
| Multi pack (96) weight | 235kg/518lb |



Features

- 10" neodymium mid/bass unit offers 250Wrms (AES standard) power handling and 96dB sensitivity
- 2.5" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- "M-Roll" surround provides progressive excursion control, yielding a smooth response even at extremes of frequency range
- Extremely lightweight design combined with a highly efficient magnet assembly results in exceptional power-to-weight ratio
- Intelligent heat management in both chassis and magnet assembly design further minimises distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NTR10-2520D

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|-----------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 96dB |
| Frequency range | 55-3500Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Copper clad aluminium |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth sealed |
| Suspension | Single |
| Xmax ⁴ | 4mm/0.16in |
| Gap Depth | 8mm/0.32in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁵

| | |
|--------------|---------------------------|
| D | 0.21m/8.27in |
| Fs | 65.0Hz |
| Mms | 37.46g/1.32oz |
| Qms | 2.568 |
| Qes | 0.362 |
| Qts | 0.317 |
| Re | 5.88Ω |
| Vas | 36.8lt/1.3ft ³ |
| Bl | 14.94Tm |
| Cms | 0.217mm/N |
| Rms | 5.12kg/s |
| Le (at 1kHz) | 0.56mH |

Mounting Information

| | |
|--------------------------|------------------------------|
| Overall diameter | 260mm/10.24in |
| Overall depth | 113mm/4.45in |
| Cut-out diameter | 234mm/9.21in |
| Mounting slot dimensions | 7.5mm x 6.5mm/0.3in x 0.26in |
| Number of mounting slots | 4 |
| Mounting PCD range | 244-247mm/9.6-9.7in |
| Unit weight | 2.2kg/4.89lb |

Packed Dimensions & Weight

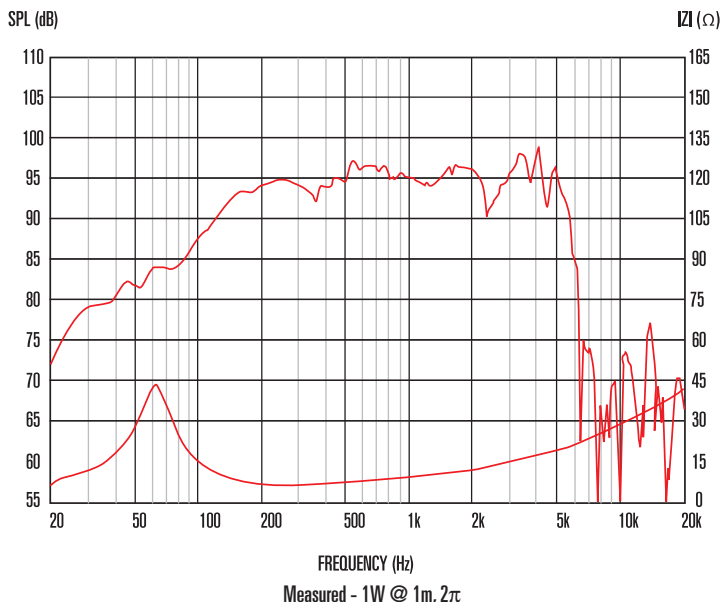
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 305mm x 305mm x 150mm |
| | /12.0in x 12.0in x 5.9in |
| Single pack weight | 2.5kg/5.5lb |
| Multi pack (96) size W x D x H | 1080mm x 880mm x 840mm |
| | /42.5in x 34.6in x 33.1in |
| Multi pack (96) weight | 235kg/518lb |



Features

- **10" neodymium mid/bass unit offers 250Wrms (AES standard) power handling and 96dB sensitivity**
- **2.5" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression**
- **"M-roll" surround provides progressive excursion control, yielding a smooth response even at extremes of frequency range**
- **Extremely lightweight design combined with a highly efficient magnet assembly results in exceptional power-to-weight ratio**
- **Intelligent heat management in both chassis and magnet assembly design further minimises distortion**

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



NTR08-2011D

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------|
| Nominal diameter | 203mm/8in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 92dB |
| Frequency range | 70-6000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| | with weather-resistant coating |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 4mm/0.16in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁵

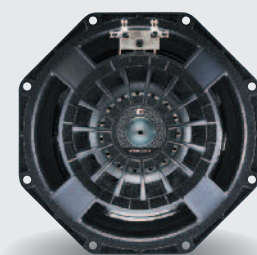
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|--------------|-----------------------------|
| D | 0.17m/6.69in |
| Fs | 80.3Hz |
| Mms | 25.33g/0.89oz |
| Qms | 1.33 |
| Qes | 0.59 |
| Qts | 0.41 |
| Re | 5.85Ω |
| Vas | 11.71lt/0.41ft ³ |
| Bl | 11.22Tm |
| Cms | 0.16mm/N |
| Rms | 9.6kg/s |
| Le (at 1kHz) | 0.59mH |

Mounting Information

| | |
|--------------------------------------|---------------|
| Overall diameter | 225mm/8.8in |
| Overall depth | 100mm/4.16in |
| Cut-out diameter | 187mm/7.4in |
| Mounting slot dimensions | ø6.5mm/0.26in |
| Number of mounting slots | 8 |
| Mounting slot PCD/width across flats | 210/8.3 |
| Unit weight | 1.52kg/3.34lb |

Packed Dimensions & Weight

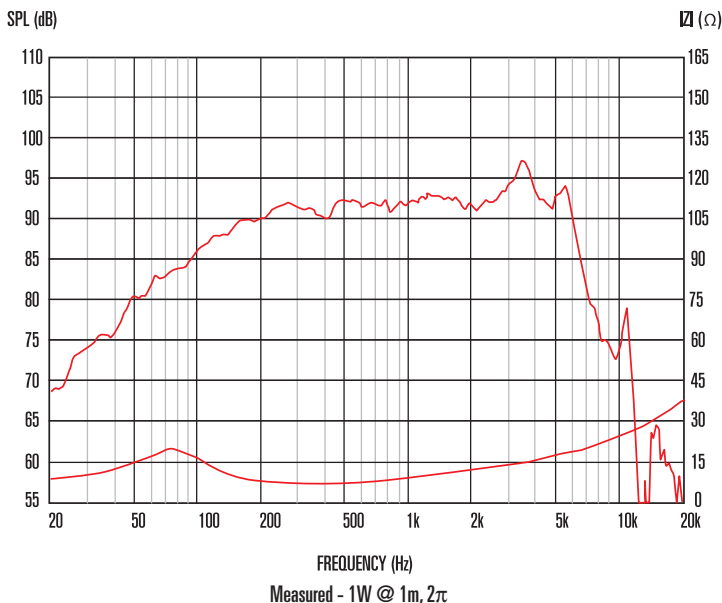
| | |
|------------------------------|---------------------------|
| Single pack size W x D x H | 235mm x 235mm x 140mm |
| | /9.2in x 9.2in x 5.5in |
| Single pack weight | 1.75kg/3.85lb |
| Multipack (8) size W x D x H | 450mm x 380mm x 260mm |
| | /17.7in x 15.0in x 10.2in |
| Multipack (8) weight | 16kg/35.2lb |



Features

- 8" neodymium magnet driver providing 200Wrms (AES standard) power handling and 92dB sensitivity
- 2" high temperature copper voice coil
- Suitable for line array applications, utilizing a space-efficient octagonal chassis profile
- Optimized flux distribution in magnet assembly provides low harmonic distortion
- "M-Roll" surround provides progressive excursion control, generating a smooth frequency response
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NTR08-2009D

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|-------------------------------------------------------|
| Nominal diameter | 203mm/8in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 94.5dB |
| Frequency range | 70-5000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Flat copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper with weather-resistant coating |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 4mm/0.16in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 18mm/0.67in |

Small Signal Parameters⁵

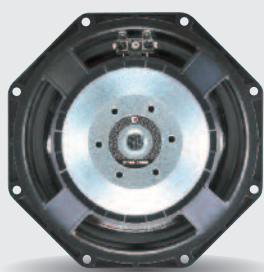
| | |
|--------------|-----------------------------|
| D | 0.17m/6.69in |
| Fs | 64.3Hz |
| Mms | 32.21g/1.14oz |
| Qms | 2.063 |
| Qes | 0.219 |
| Qts | 0.198 |
| Re | 5.83Ω |
| Vas | 13.87lt/0.49ft ³ |
| Bl | 18.56Tm |
| Cms | 0.19mm/N |
| Rms | 6.3kg/s |
| Le (at 1kHz) | 0.51mH |

Mounting Information

| | |
|--------------------------------------|---------------|
| Overall diameter | 225mm/8.8in |
| Overall depth | 100mm/4.16in |
| Cut-out diameter | 187mm/7.4in |
| Mounting slot dimensions | ø6.5mm/0.26in |
| Number of mounting slots | 8 |
| Mounting slot PCD/width across flats | 210/8.3 |
| Unit weight | 2.8kg/6.16lb |

Packed Dimensions & Weight

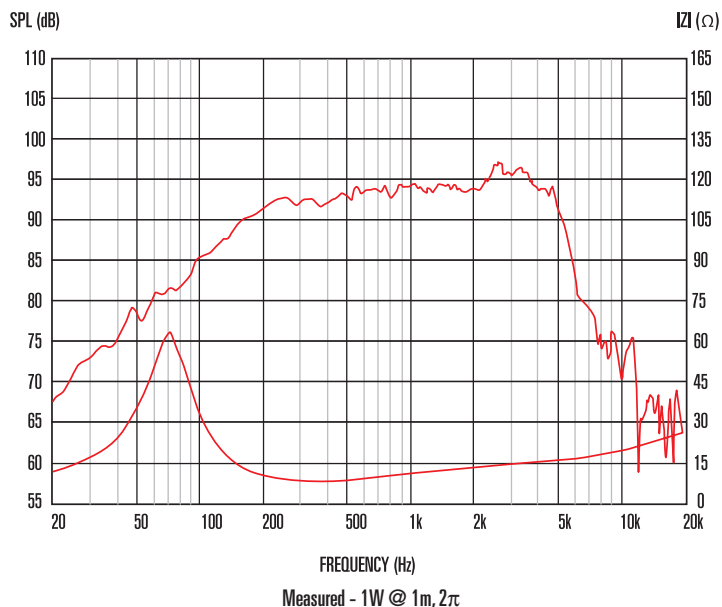
| | |
|------------------------------|---------------------------|
| Multipack (8) size W x D x H | 450mm x 380mm x 260mm |
| | /17.7in x 15.0in x 10.2in |
| Multipack (8) weight | 24kg/52.8lb |



Features

- 8" neodymium magnet driver providing 200Wrms (AES standard) power handling and 94.5dB sensitivity
- 2" edgewound copper voice coil
- Suitable for line array applications, utilizing a space-efficient octagonal chassis profile
- Copper sleeved pole reduces inductive rise for improved HF performance
- "M-roll" surround provides progressive excursion control, generating a smooth frequency response
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



NEW

NTR06-17X

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|-------------------------------------------------------|
| Nominal diameter | 165mm/6.5in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 93.5dB |
| Frequency range | 70-5000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Copper clad aluminium |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper with weather resistant coating |
| Surround material | Elastomer |
| Suspension | Single |
| Xmax ⁴ | 3mm/0.12in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.14m/5.51in |
| Fs | 61.2Hz |
| Mms | 16.399g/0.58oz |
| Qms | 8.234 |
| Qes | 0.34 |
| Qts | 0.327 |
| Re | 5.32Ω |
| Vas | 13.817lt/0.49ft ³ |
| Bl | 9.93Tm |
| Cms | 0.412mm/N |
| Rms | 0.766kg/s |
| Le (at 1kHz) | 0.33mH |

Mounting Information

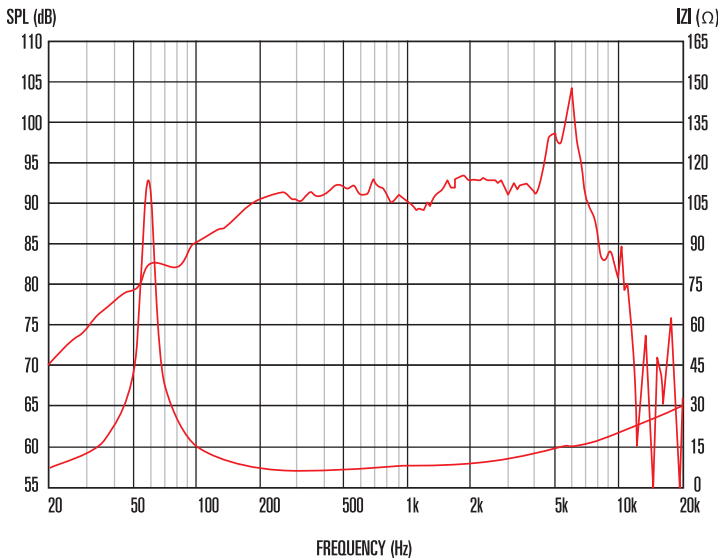
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|--------------------------|-----------------|
| Overall diameter | Max 185mm/7.3in |
| Overall depth | 73mm/2.87in |
| Cut-out diameter | 145mm/5.7in |
| Mounting slot dimensions | ø10mm/0.39in |
| Number of mounting slots | 4 |
| Mounting slot PCD range | 170mm/6.7in |
| Unit weight | 1.2kg/2.64lb |



Features

- 6.5" neodymium magnet woofer providing 150Wrms (AES standard) power handling and 93.5dB sensitivity
- 1.75" high temperature copper clad aluminium voice coil
- Optimized flux distribution in magnet assembly provides low harmonic distortion
- Half-roll elastomer surround provides greater excursion and improved modal distribution
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression
- Water-resistant Kevlar-loaded cone
- Space efficient chassis profile

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NTR06-1705D

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|-----------------------|
| Nominal diameter | 165mm/6.5in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 90dB |
| Frequency range | 70-7000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Copper clad aluminium |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Elastomer |
| Suspension | Single |
| Xmax ⁴ | 4.5mm/0.18in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 15mm/0.63in |

Small Signal Parameters⁵

| | |
|--------------|-----------------------------|
| D | 0.13m/5.12in |
| Fs | 59.8Hz |
| Mms | 17.52g/0.618oz |
| Qms | 8.240 |
| Qes | 0.446 |
| Qts | 0.423 |
| Re | 5.22Ω |
| Vas | 10.07lt/0.38ft ³ |
| Bl | 8.79Tm |
| Cms | 0.404mm/N |
| Rms | 0.799kg/s |
| Le (at 1kHz) | 0.17mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | Max 189mm/7.44in |
| | Min 162mm/6.38in |
| Overall depth | 87mm/3.43in |
| Cut-out diameter | 150mm/5.9in |
| Mounting slot dimensions | 6.5mm x 5.5mm/0.26in x 0.22in |
| Number of mounting slots | 4 |
| Mounting slot PCD range | 173.5mm/6.83in |
| Unit weight | 0.95kg/2.09lb |

Packed Dimensions & Weight

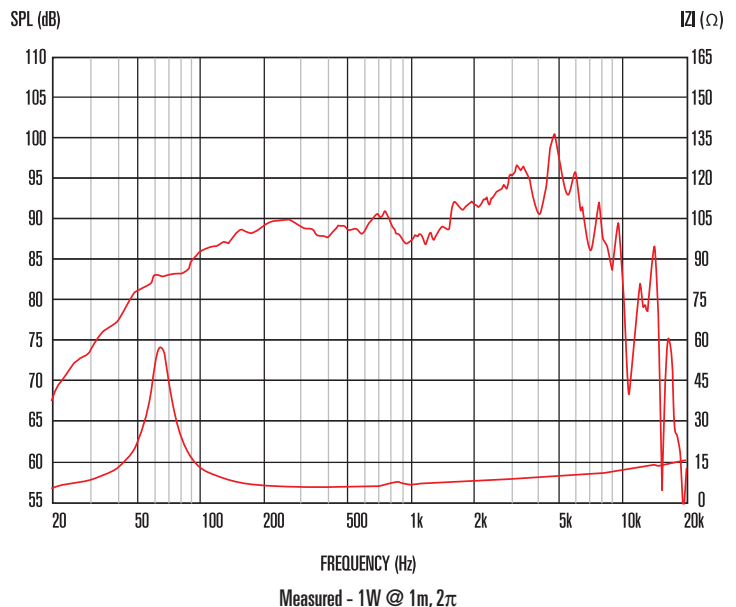
| | |
|---------------------------------|--------------------------|
| Single pack size W x D x H | 190mm x 190mm x 110mm |
| | 7.5in x 7.5in x 4.3in |
| Single pack weight | 1.1kg/2.4lb |
| Multi pack (120) size W x D x H | 1070mm x 850mm x 860mm |
| | 42.1in x 33.5in x 33.9in |
| Multi pack (120) weight | 140kg/308lb |



Features

- 6.5" neodymium magnet woofer providing 150Wrms (AES standard) power handling and 90dB sensitivity
- 1.75" high temperature copper clad aluminium voice coil
- Optimized flux distribution in magnet assembly provides low harmonic distortion
- Half-roll elastomer surround provides greater excursion and improved modal distribution
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression
- Copper sleeved pole reduces inductive rise for improved HF performance
- Space efficient chassis profile

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



NTR06-1705B

Neodymium magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|-----------------------|
| Nominal diameter | 165mm/6.5in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 95dB |
| Frequency range | 150-7000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Coil material | Copper clad aluminium |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 2.5mm/0.098in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 11mm/0.43in |

Small Signal Parameters⁵

| | |
|--------------|----------------------------|
| D | 0.13m/5.12in |
| Fs | 109.6Hz |
| Mms | 12.934g/0.457oz |
| Qms | 2.632 |
| Qes | 0.527 |
| Qts | 0.439 |
| Re | 5.95Ω |
| Vas | 4.06lt/0.14ft ³ |
| Bl | 10.03Tm |
| Cms | 0.163mm/N |
| Rms | 3.385kg/s |
| Le (at 1kHz) | 0.24mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | Max 189mm/7.44in |
| | Min 162mm/6.38in |
| Overall depth | 71mm/2.79in |
| Cut-out diameter | 150mm/5.9in |
| Mounting slot dimensions | 6.5mm x 5.5mm/0.26in x 0.22in |
| Number of mounting slots | 4 |
| Mounting slot PCD range | 173.5mm/6.83in |
| Unit weight | 0.85kg/1.87lb |

Packed Dimensions & Weight

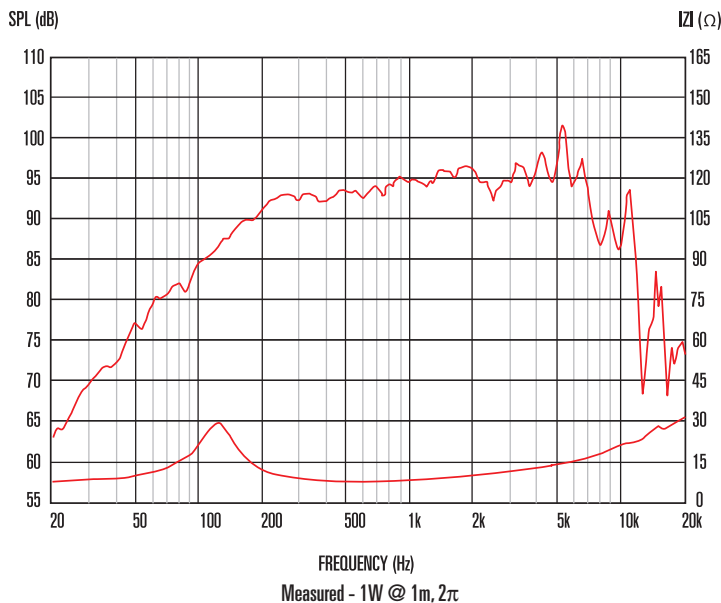
| | |
|--------------------------------|--------------------------|
| Single pack size W x D x H | 190mm x 190mm x 110mm |
| | 7.5in x 7.5in x 4.3in |
| Single pack weight | 1.0kg/2.2lb |
| Multipack (140) size W x D x H | 1070mm x 850mm x 860mm |
| | 42.1in x 33.5in x 33.9in |
| Multipack (140) weight | 140kg/308lb |



Features

- 6.5" neodymium magnet mid-range driver providing 150Wrms (AES standard) power handling and 95dB sensitivity
- 1.75" high temperature copper clad aluminium voice coil
- Suitable for line array applications, utilising a space efficient chassis profile
- FEA optimised flux distribution in the magnet assembly provides low harmonic distortion
- "M-Roll" surround provides progressive excursion control, generating a smooth frequency response
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

LF Cast Chassis Ferrite

Ferrite magnet cast aluminium chassis drivers

Range Overview

With a range extending from a lightweight, space-efficient 6" mid-range unit to heavy duty 18" sub-bass drivers, Celestion's Cast Aluminium LF Ferrite loudspeakers are purpose designed specifically for applications such as reflex, scoop, band pass and horn-loaded subwoofers, as well as for multi-way systems.

Already a favourite with system builders who require uncompromising LF performance, Celestion FTR drivers are characterised by high power handling, low distortion and linear excursion.



LF Ferrite Range

| | Nominal Diameter | Power Rating* | Impedance | Sensitivity | Frequency Range | Voice Coil Diameter | Unit Weight |
|----------------------|------------------|---------------|-----------|-------------|-----------------|---------------------|---------------|
| CF18VJD | 457mm/18in | 1600Wrms | 8Ω | 97dB | 25-1500Hz | 125mm/5in | 23kg/850.6lb |
| CF1840JD | 457mm/18in | 1200Wrms | 8Ω | 96dB | 30-2500Hz | 100mm/4in | 11.6kg/25.5lb |
| CF1840H | 457mm/18in | 1000Wrms | 4Ω | 98dB | 30-2500Hz | 100mm/4in | 11.6kg/25.5lb |
| CF1830E | 457mm/18in | 700Wrms | 8Ω | 95dB | 30-2500Hz | 75mm/3in | 8.12kg/17.9lb |
| CF1025C | 254mm/10in | 300Wrms | 8Ω | 99dB | 60-5000Hz | 64mm/2.5in | 4.9kg/10.8lb |
| CF0820BMB | 200mm/8in | 250Wrms | 8Ω | 93dB | 50-6000Hz | 50mm/2in | 3.1kg/6.8lb |
| CF0820M | 200mm/8in | 250Wrms | 8Ω | 98dB | 150-6000Hz | 50mm/2in | 3.4kg/7.5lb |
| CF0617M | 165mm/6.5in | 200Wrms | 8Ω | 96dB | 300-7000Hz | 45mm/1.75in | 1.9kg/4.2lb |
| FTR18-4080HDX | 457mm/18in | 1000Wrms | 8Ω | 95dB | 30-2500Hz | 100mm/4in | 9.8kg/21.6lb |
| FTR18-4080FD | 457mm/18in | 1000Wrms | 8Ω | 97dB | 30-2500Hz | 100mm/4in | 9.8kg/21.6lb |
| FTR18-4080F | 457mm/18in | 600Wrms | 8Ω | 97dB | 30-3000Hz | 100mm/4in | 9.7kg/21.4lb |
| FTR15-4080HDX | 381mm/15in | 1000Wrms | 8Ω | 96dB | 40-2500Hz | 100mm/4in | 9.7kg/21.3lb |
| FTR15-4080HD | 381mm/15in | 1000Wrms | 8Ω | 95dB | 35-2500Hz | 100mm/4in | 9.5kg/20.9lb |
| FTR15-4080FD | 381mm/15in | 1000Wrms | 8Ω | 97dB | 35-2500Hz | 100mm/4in | 9.5kg/20.9lb |
| FTR15-4080F | 381mm/15in | 600Wrms | 8Ω | 97dB | 35-3000Hz | 100mm/4in | 9.4kg/20.7lb |
| FTR15-3070E | 381mm/15in | 400Wrms | 4/8Ω | 97dB | 40-4000Hz | 75mm/3in | 6.4kg/14.1lb |
| FTR15-3070C | 381mm/15in | 400Wrms | 8Ω | 99dB | 40-4000Hz | 75mm/3in | 6.3kg/13.8lb |
| FTR12-4080HDX | 305mm/12in | 1000Wrms | 8Ω | 93dB | 47-3000Hz | 100mm/4in | 9.6kg/21.1lb |
| FTR12-3070F | 305mm/12in | 450Wrms | 8Ω | 98dB | 40-4000Hz | 75mm/3in | 6.7kg/14.7lb |
| FTR12-3070C | 305mm/12in | 350Wrms | 8Ω | 96dB | 40-4000Hz | 75mm/3in | 6.3kg/13.9lb |
| FTR12-2565D | 305mm/12in | 250Wrms | 8Ω | 95dB | 55-4000Hz | 64mm/2.5in | 4.5kg/9.9lb |
| FTR10-2055D | 254mm/10in | 200Wrms | 8Ω | 93.5dB | 60-4000Hz | 50mm/2in | 4kg/8.8lb |
| FTR08-2011D | 200mm/8in | 200Wrms | 8Ω | 93dB | 70-6000Hz | 50mm/2in | 3.65kg/8.0lb |

*AES Standard

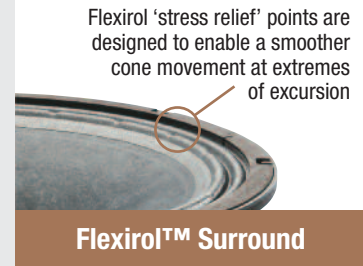
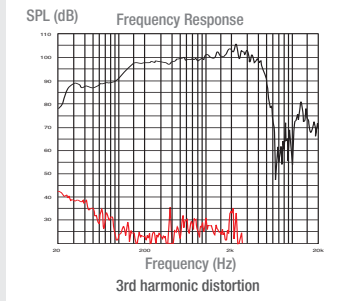
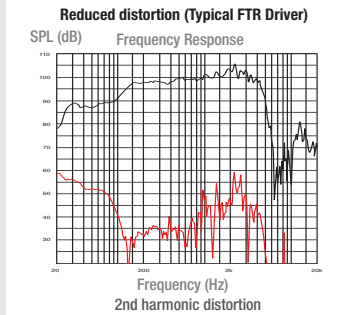
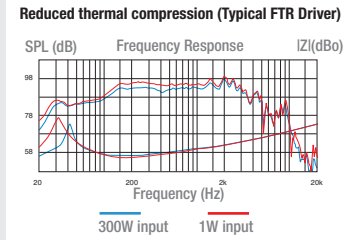
Key Technologies

The addition of the flagship CF Series of LF speakers brings with it further innovations designed to deliver greater enhancements in performance. Balanced Airflow Venting (BAV) builds on Celestion's principles of smart chassis design for enhanced cooling. Strategically sized and positioned airflow channels are located in the magnet structure to produce a balanced airflow around the voice coil, rapidly taking heat away to mitigate thermal compression. This enables CF drivers to deliver impressive levels of power handling, without needing overly-massive magnet assemblies.

Demodulation rings substantially reduce both harmonic and intermodulation distortion associated with coil displacement. On the CF Series, the demod rings not only reduce flux modulation that occurs when the voice coil moves but also act to make the variation of system inductances more linear as input current varies.

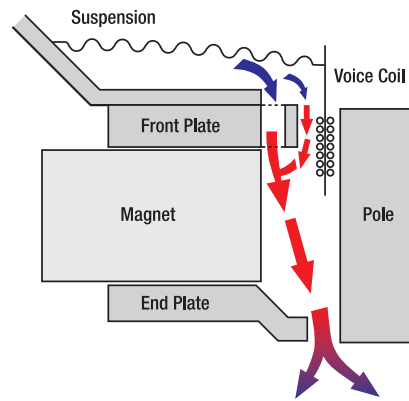
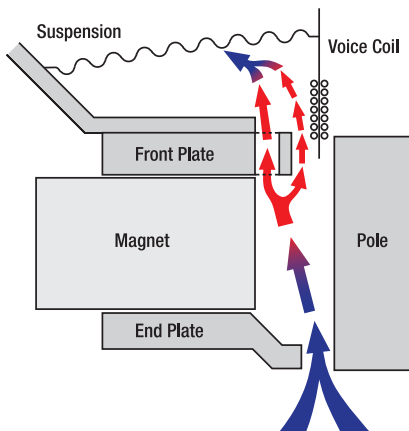
Celestion's ferrite magnet, cast chassis drivers combine optimised linear excursion with advanced heat management to achieve low distortion and a reliable, consistent performance. Innovations like Inside/Outside voice coils, which are wound on both sides of a rigid glass-fibre former deliver more rapid cooling.

The lightweight, robust, cast aluminium chassis are designed to minimise reflections back to the cone, significantly reducing acoustic distortion, and an FEA optimised magnet topology ensures even flux distribution around the air gap. Double suspensions deliver extra excursion control.



Flexirol™ Surround

Balanced Airflow Venting (BAV)



CF18VJD

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 1600Wrms |
| Continuous power rating ² | 3200W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 97dB |
| Frequency range | 25Hz-1500Hz |
| Voice coil diameter | 125mm/5in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 4.93kg/174oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Carbon and Kevlar loaded paper |
| Surround material | Cloth sealed |
| Suspension | Double |
| Xmax ⁴ | 9mm/0.35in |
| Gap depth | 12mm/0.47in |
| Voice coil winding width | 30mm/1.18in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.38m/14.96in |
| Fs | 34.3Hz |
| Mms | 259.72g/9.16oz |
| Qms | 5.152 |
| Qes | 0.360 |
| Qts | 0.336 |
| Re | 5.98Ω |
| Vas | 150.58lt/5.32ft ³ |
| Bl | 30.52Tm |
| Cms | 0.083mm/N |
| Rms | 10.88kg/s |
| Le (at 1kHz) | 1.48mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Diameter | 462mm/18.19in |
| Overall depth | 233mm/9.17in |
| Cut-out diameter | 416mm/16.38in |
| Mounting slot dimensions | 11mm x 7mm/0.43in x 0.28in |
| Number of mounting slots | 8 |
| Mounting PCD range | 441-432mm/17.36-17.0in |
| Unit weight | 23kg/50.6lb |

Packed Dimensions & Weight

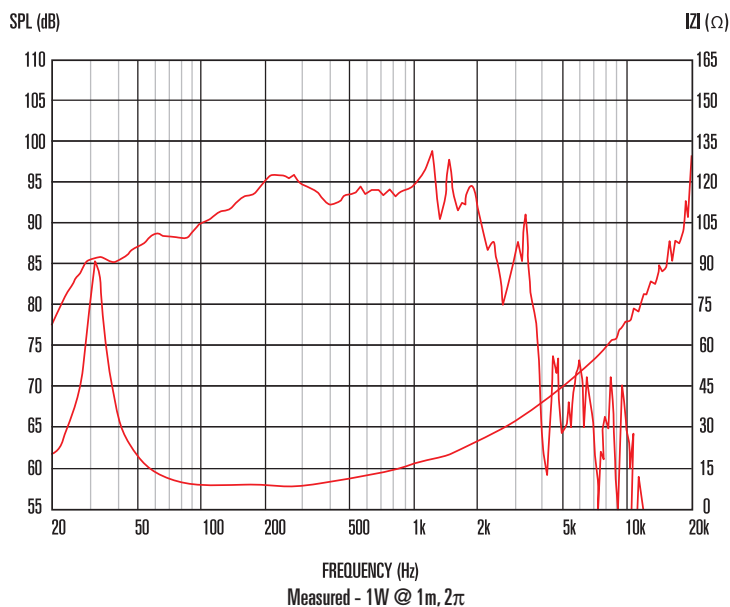
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|----------------------------|------------------------|
| Single pack size W x D x H | 500mm x 500mm x 255mm |
| | 19.7in x 19.7in x 11in |
| Single pack weight | 24kg/52.8lb |



Features

- 18" ferrite magnet, cast aluminium chassis LF driver delivering 1600Wrms (AES Standard) power handling and 97dB sensitivity
- 5" high temperature, dual layer, Inside/Outside voice coil for higher efficiency, preventing sensitivity loss through thermal compression
- FEA optimized magnet assembly and suspension deliver highly symmetrical cone movement, leading to exceptionally low harmonic distortion
- Vented front plate increases airflow to provide enhanced cooling
- Twin demodulation rings reduce flux modulation, minimizing electromagnetic distortion
- Double suspension and "multi-roll" surround provide exceptional linearity at extremes of cone excursion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



CF1840JD

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 1200Wrms |
| Continuous power rating ² | 2400W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 98dB |
| Frequency range | 30-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.18kg/112oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 10mm/0.39in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 30mm/1.18in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.38m/14.96in |
| Fs | 37Hz |
| Mms | 217.35g/7.67oz |
| Qms | 4.372 |
| Qes | 0.437 |
| Qts | 0.397 |
| Re | 5.29Ω |
| Vas | 155.04lt/5.47ft ³ |
| Bl | 24.758Tm |
| Cms | 0.085mm/N |
| Rms | 11.56kg/s |
| Le (at 1kHz) | 1.07mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Diameter | 460mm/18.11in |
| Overall depth | 220.35mm/8.68in |
| Cut-out diameter | 414mm/16.29in |
| Mounting slot dimensions | 11mm x 7mm/0.43in x 0.28in |
| Number of mounting slots | 8 |
| Mounting PCD range | 441-432mm/17.36-17.01in |
| Unit weight | 11.6kg/25.5lb |

Packed Dimensions & Weight

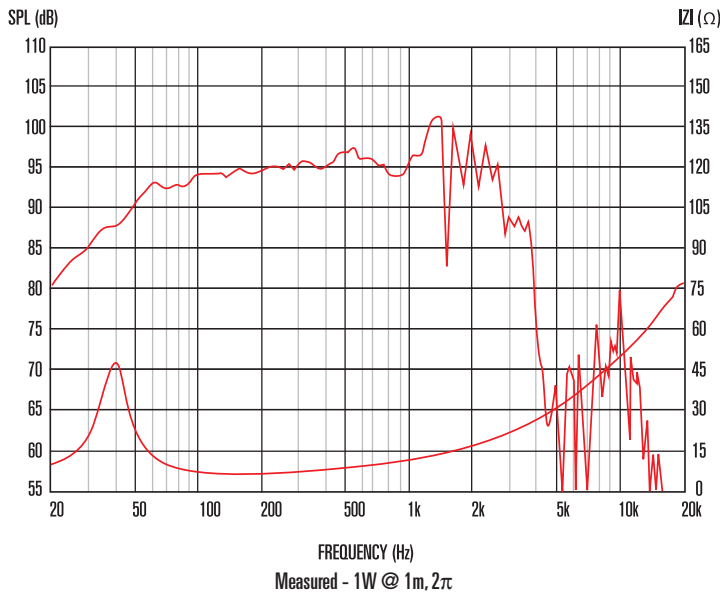
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 500mm x 500mm x 255mm |
| | /19.7in x 19.7in x 11in |
| Single pack weight | 13kg/28.6lb |
| Multipack (24) size W x D x H | 1210mm x 1046mm x 1070mm |
| | /47.6in x 41.2in x 42.1in |
| Multipack (24) weight | 300kg/660lb |



Features

- 18" ferrite magnet, cast aluminium chassis LF driver delivering 1000Wrms (AES Standard) power handling and 98dB sensitivity
- 4" high temperature, dual layer, Inside/Outside voice coil for higher efficiency, preventing sensitivity loss through thermal compression
- FEA optimized magnet assembly and suspension deliver highly symmetrical cone movement, leading to exceptionally low harmonic distortion
- Vented magnet assembly increases airflow to provide enhanced cooling
- Twin demodulation rings reduce flux modulation, minimizing electromagnetic distortion
- Double suspension and "multi-roll" surround provide exceptional linearity at extremes of cone excursion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NEW

CF1840H

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 4Ω |
| Sensitivity ³ | 98dB |
| Frequency range | 30-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.18kg/112oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Carbon-fibre loaded paper |
| Surround material | Cloth sealed |
| Suspension | Single |
| Xmax ⁴ | 8mm/0.31in |
| Gap depth | 9.5mm/0.37in |
| Voice coil winding width | 25mm/0.99in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.38m/14.96in |
| Fs | 37.6Hz |
| Mms | 154.06g/5.44oz |
| Qms | 5.552 |
| Qes | 0.385 |
| Qts | 0.36 |
| Re | 3.07Ω |
| Vas | 211.24ft/7.46ft ³ |
| Bl | 17.05Tm |
| Cms | 0.116mm/N |
| Rms | 6.562kg/s |
| Le (at 1kHz) | 0.24mH |

Mounting Information

| | |
|--------------------------|--------------------------|
| Diameter | 460mm/18.11in |
| Overall depth | 220.35mm/8.68in |
| Cut-out diameter | 414mm/16.29in |
| Mounting slot dimensions | 12mm x 7mm/0.43in-0.28in |
| Number of mounting slots | 8 |
| Mounting PCD range | 441-433mm/17.36-17.01in |
| Unit weight | 11.6kg/25.5lb |

Packed Dimensions & Weight

| | |
|----------------------------|------------------------|
| Single pack size W x D x H | 500mm x 500mm x 255mm |
| | 19.7in x 19.7in x 11in |
| Single pack weight | 13kg/28.6lb |



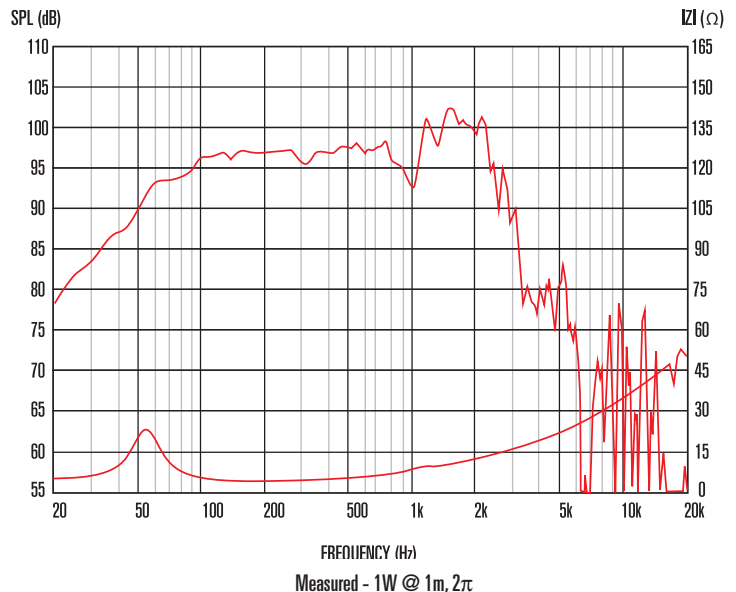
PRELIMINARY INFORMATION



Features

- 18" ferrite magnet, cast aluminium chassis LF driver delivering 1000Wrms (AES Standard) power handling and 98dB sensitivity
- 4" high temperature, dual layer, inside/outside voice coil for higher efficiency, preventing performance loss through thermal compression
- Triangulated coil reinforcement increases stiffness with no additional moving mass, thereby increasing sensitivity, while maintaining a long Xmax
- Finite element analysis optimised magnet assembly delivers remarkably low harmonic distortion and very high motor strength
- Smart chassis design minimises reflections back onto the cone, significantly reducing acoustic distortion
- Intelligent heat management in both chassis and magnet assembly design offers increased output level

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



CF1830E

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|------------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 700Wrms |
| Continuous power rating ² | 1400W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 95dB |
| Frequency range | 30-2500Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.84kg/64oz |
| Coil material | Round Copper |
| Former material | Glass Fibre |
| Cone material | Glass-Reinforced Paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 5mm/0.2in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 18mm/0.71in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.38m/14.96in |
| Fs | 40.5Hz |
| Mms | 167.47g/5.91oz |
| Qms | 4.567 |
| Qes | 0.371 |
| Qts | 0.343 |
| Re | 5.27Ω |
| Vas | 167.92lt/5.93ft ³ |
| Bl | 24.6Tm |
| Cms | 0.092mm/N |
| Rms | 9.33kg/s |
| Le (at 1kHz) | 3.24mH |

Mounting Information

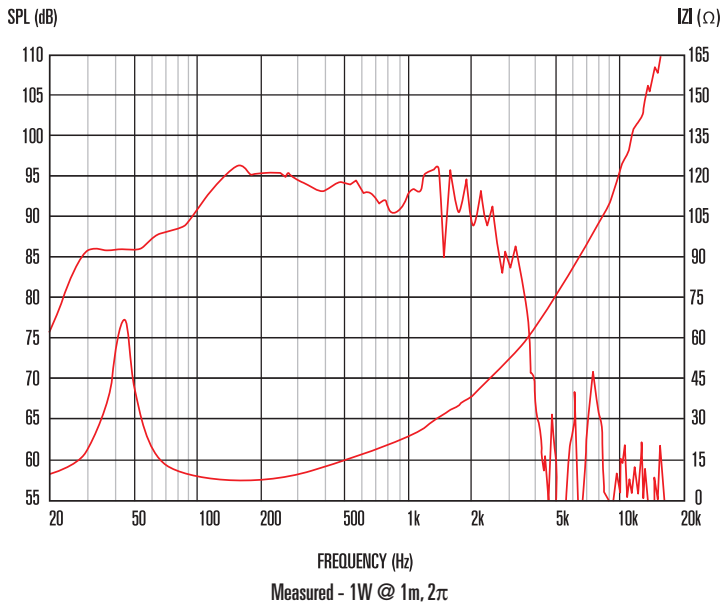
| | |
|--------------------------|--------------------------|
| Diameter | 460mm/18.11in |
| Overall depth | 211.3mm/8.31in |
| Cut-out diameter | 414mm/16.29in |
| Mounting slot dimensions | 11mm x 7mm/0.43 x 0.28in |
| Number of mounting slots | 8 |
| Mounting slot PCD | 441-432mm/17.36-17.0in |
| Unit weight | 8.12kg/17.9lb |



Features

- 18" ferrite magnet, cast aluminium chassis LF driver delivering 700Wrms (AES Standard) power handling and 95dB sensitivity
- 3" high temperature, multi-layer voice coil for greater motor force
- FEA optimized magnet assembly and suspension deliver highly symmetrical cone movement, leading to exceptionally low harmonic distortion
- Balanced Airflow Venting (BAV) on the front-plate increases airflow to provide enhanced cooling
- Dual Magnet Motor (DMM) incorporates a secondary magnet used to increase overall motor force (BI) without the need for any additional increase in magnet size
- "Multi-roll" surround provides exceptional linearity at extremes of cone excursion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

CF1025C

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 99dB |
| Frequency range | 60-5000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.7kg/60oz |
| Coil material | Edgewound copper clad aluminium |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 2.5mm/0.1in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 12.5mm/0.49in |

Small Signal Parameters⁵

| | |
|-----|------------------------------|
| D | 0.21m/8.27in |
| Fs | 57.5Hz |
| Mms | 36.16g/1.28oz |
| Qms | 3.906 |
| Qes | 0.310 |
| Qts | 0.287 |
| Re | 5.54Ω |
| Vas | 35.69lt/1.286ft ³ |
| Bl | 15.32Tm |
| Cms | 0.21mm/N |
| Rms | 3.358kg/s |
| Le | 0.635mH |

Mounting Information

| | |
|--------------------------|-------------------------|
| Diameter | 265mm/10.43in |
| Overall depth | 119mm/4.69in |
| Cut-out diameter | 230.8mm/9.1in |
| Mounting slot dimensions | 8x6.5mm/0.3x0.25in |
| Number of mounting slots | 8 |
| Mounting slot PCD | 244.5-247mm/9.63-9.73in |
| Unit weight | 4.9kg/10.8lb |

Packed Dimensions & Weight

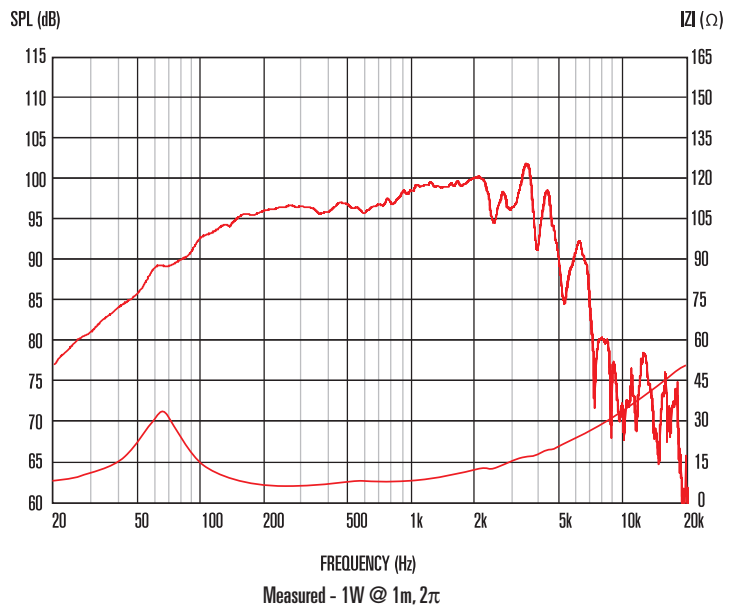
| | |
|------------------------------|--------------------------|
| Single pack size W x D x H | 306mm x 306mm x 155mm |
| | 12in x 12in x 6.1in |
| Single pack weight | 5.5kg/12.1lb |
| Multipack (8) size W x D x H | 555mm x 520mm x 290mm |
| | 21.9in x 20.5in x 11.4in |
| Multipack (24) weight | 45kg/99lb |



Features

- **10" Mid/bass driver delivering 99dB sensitivity and 300Wrms (AES standard) power handling**
- **FEA optimised magnet assembly and suspension delivers highly symmetrical cone movement leading to exceptionally low harmonic distortion**
- **Balanced Airflow Venting (BAV) increases airflow to provide enhanced cooling**
- **Twin demodulation rings reduce flux modulation, minimizing electromagnetic distortion**
- **"M-roll" surround provides progressive excursion control, yielding a smooth response even at extremes of frequency range**

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NEW

CF0820BMB

Ferrite magnet cast aluminium chassis driver



General Specifications

| | |
|--------------------------------------|-----------------------|
| Nominal diameter | 200mm/8in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 93dB |
| Frequency range | 50-6000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 0.99kg/34.8oz |
| Coil material | Copper clad aluminium |
| Former material | Glas fibre |
| Cone material | Treated paper |
| Surround material | Elastomer |
| Suspension | Single |
| Xmax ⁴ | 5.25mm/0.21in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 18.5mm/0.73in |

Small Signal Parameters⁵

| | |
|--------------|-----------------------------|
| D | 0.17m/6.69in |
| Fs | 52.5Hz |
| Mms | 28.82g/1.02oz |
| Qms | 5.32 |
| Qes | 0.372 |
| Qts | 0.347 |
| Re | 5.3Ω |
| Vas | 23.24lt/0.82ft ³ |
| Bl | 11.65Tm |
| Cms | 0.312mm/N |
| Rms | 1.79kg/s |
| Le (at 1kHz) | 0.59mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Diameter | 215mm/8.5in |
| Overall depth | 108mm/4.3in |
| Cut-out diameter | 187mm/7.4in |
| Mounting slot dimensions | 7 x 5.6mm/0.28in x 0.22in |
| Number of mounting slots | 8 |
| Mounting PCD range | 197-200mm/7.8-7.9in |
| Unit weight | 3.1kg/6.8lb |

Packed Dimensions & Weight

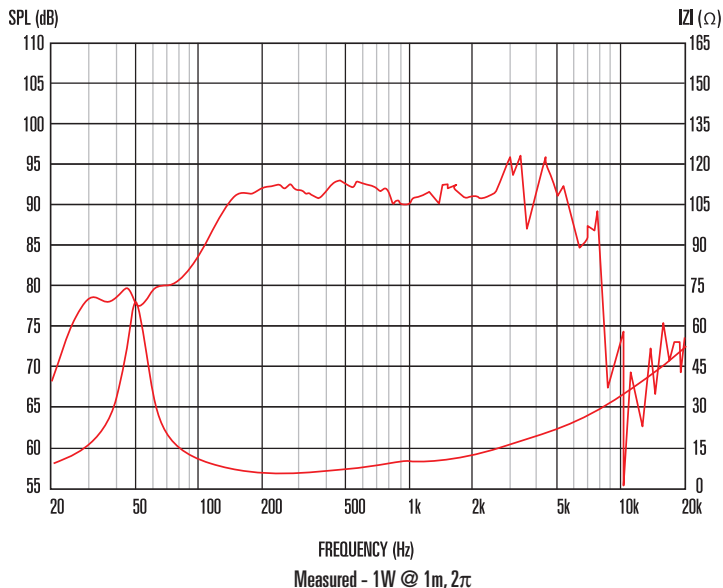
| | |
|-------------------------------|-------------------------|
| Multi pack (8) size W x D x H | 465mm x 455mm x 250mm |
| | 18.3in x 17.9in x 9.8in |
| Multi pack (8) weight | 27.5kg/60lb |



Features

- 8" ferrite woofer purpose-built for bass and mid/bass applications
- Delivers 250Wrms (AES standard) power handling and 93dB sensitivity
- Balanced Airflow Venting (BAV) increases airflow to provide enhanced cooling
- Finite element analysis optimised magnet assembly delivers remarkably low harmonic distortion and very high motor strength
- Half-roll elastomer surround provides longer Xmax excursion and improved modal distribution for reduced distortion
- Smart chassis design minimises reflections back onto the cone, significantly reducing acoustic distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

NEW

CF0820M

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|-----------------------|
| Nominal diameter | 200mm/8in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 98dB |
| Frequency range | 150-6000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.3kg/45oz |
| Coil material | Copper clad aluminium |
| Former material | Glass fibre |
| Cone material | Treated paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁴ | 1.5mm/0.06in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 11mm/0.43in |

Small Signal Parameters⁵

| | |
|--------------|---------------------------|
| D | 0.17m/6.69in |
| Fs | 124.8Hz |
| Mms | 21.3g/0.75oz |
| Qms | 2.79 |
| Qes | 0.539 |
| Qts | 0.452 |
| Re | 5.42Ω |
| Vas | 5.57lt/0.2ft ³ |
| Bl | 12.96Tm |
| Cms | 0.076mm/N |
| Rms | 5.984kg/s |
| Le (at 1kHz) | 0.24mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Diameter | 215mm/8.5in |
| Overall depth | 113mm/4.45in |
| Cut-out diameter | 187mm/7.4in |
| Mounting slot dimensions | 7 x 5.6mm/0.28in x 0.22in |
| Number of mounting slots | 8 |
| Mounting PCD range | 197-200mm/7.8-7.9in |
| Unit weight | 3.4kg/7.5lb |

Packed Dimensions & Weight

| | |
|-------------------------------|-------------------------|
| Multi pack (8) size W x D x H | 465mm x 455mm x 250mm |
| | 18.3in x 17.9in x 9.8in |
| Multi pack (8) weight | 27.5kg/60lb |



PRELIMINARY INFORMATION

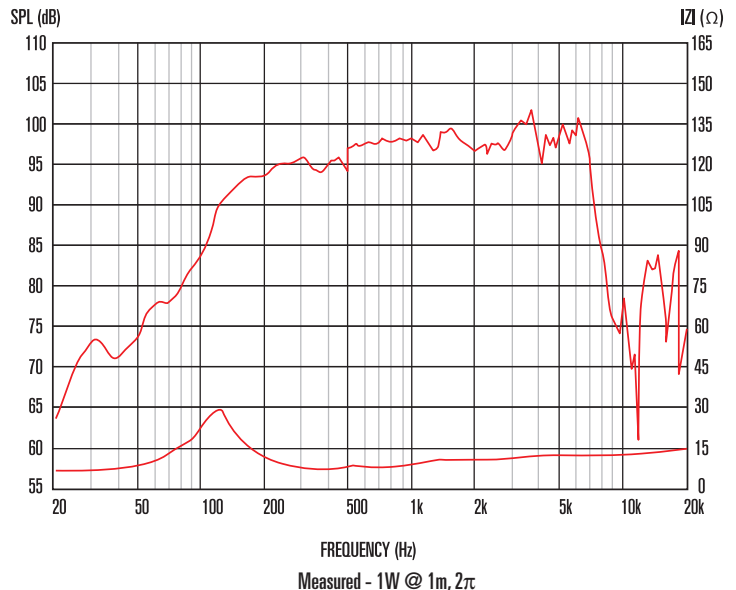
CELESTION



Features

- 8" ferrite woofer purpose-built for midrange applications
- Delivers 250Wrms (AES standard) power handling and 98dB sensitivity
- Finite element analysis optimised magnet assembly delivers remarkably low harmonic distortion and very high motor strength
- Copper sleeved pole reduces inductive rise for improved HF performance
- Smart chassis design minimises reflections back onto the cone, significantly reducing acoustic distortion
- Intelligent heat management in both chassis and magnet assembly design offers increased output level

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array



CF0617M

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------------------|
| Size | 165mm/6.5in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 96dB |
| Frequency range | 300-7000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 0.6kg/220oz |
| Coil material | Edgewound copper clad aluminium |
| Cone material | Kevlar loaded paper |
| Surround material | Temperature resistant foam |
| Suspension | Single |
| Xmax ⁴ | 1.2mm/0.05in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 8.4mm/0.33in |

Small Signal Parameters⁵

| | |
|--------------|-----------------------------|
| D | 0.14m/5.5in |
| Fs | 129.3Hz |
| Mms | 11.61g/0.41oz |
| Qms | 8.165 |
| Qes | 0.573 |
| Qts | 0.536 |
| Re | 5.35Ω |
| Vas | 4.376lt/0.15ft ³ |
| Bl | 9.38Tm |
| Cms | 0.13mm/N |
| Rms | 1.155kg/s |
| Le (at 1kHz) | 0.61mH |

Mounting Information

| | |
|--------------------------|------------------------------|
| Overall diameter | Max 189mm/7.44in |
| | Min 162mm/6.38in |
| Overall depth | 78.5mm/3.1in |
| Cut-out diameter | 150mm/5.9in |
| Mounting slot dimensions | 7.5mm x 5.5mm/0.3in x 0.22in |
| Number of mounting slots | 4 |
| Mounting slot PCD range | 173-175mm/6.81-6.89in |
| Unit weight | 1.9kg/4.2lb |

Packed Dimensions & Weight

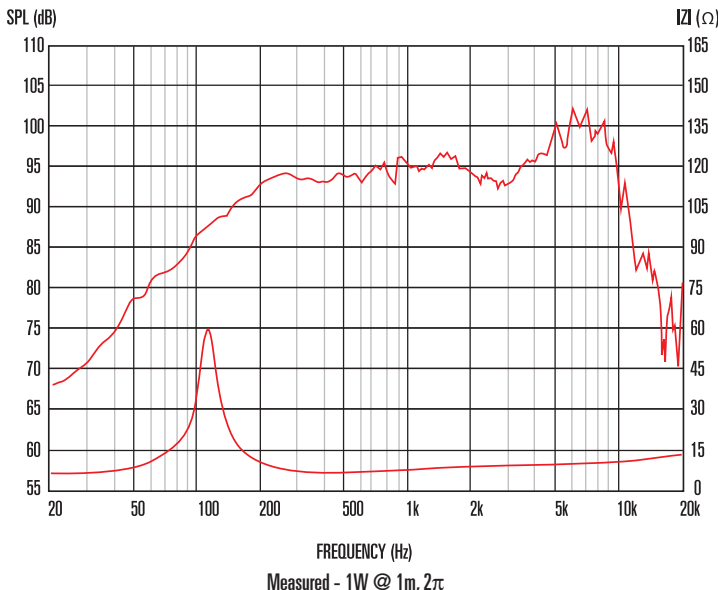
| | |
|------------------------------|-------------------------|
| Single pack size W x D x H | 190mm x 190mm x 110mm |
| | 7.5in x 7.5in x 4.3in |
| Single pack weight | 2.5kg/5.5lb |
| Multipack (8) size W x D x H | 345mm x 315mm x 190mm |
| | 13.6in x 12.4in x 7.5in |
| Multipack (24) weight | 20kg/44lb |



Features

- 6.5" dedicated mid-range driver delivering 96dB sensitivity and 200Wrms (AES standard) power handling
- FEA optimised magnet assembly and suspension delivers highly symmetrical cone movement leading to exceptionally low harmonic distortion
- Inverted dust cap for close positioning of phase plug
- Foam surround minimises unwanted reflections along cone surface
- Copper sleeved pole reduces inductive rise for improved HF performance
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression
- Space efficient chassis profile

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

FTR18-4080HDX

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 95dB |
| Frequency range | 30-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass Fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 8mm/0.33in |
| Gap depth | 9.5mm/0.37in |
| Voice coil winding width | 25mm/0.99in |

Small Signal Parameters⁵

| | |
|--------------|-----------------------------|
| D | 0.38m/14.96in |
| Fs | 35.5Hz |
| Mms | 199.02g/7.025oz |
| Qms | 5.74 |
| Qes | 0.46 |
| Qts | 0.42 |
| Re | 5.01Ω |
| Vas | 184.24lt/6.5ft ³ |
| Bl | 22.11Tm |
| Cms | 0.10mm/N |
| Rms | 7.72kg/s |
| Le (at 1kHz) | 1.81mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Overall diameter | 452mm/17.8in |
| Overall depth | 205mm/8.07in |
| Cut-out diameter | 416mm/16.38in |
| Mounting slot dimensions | 10mm x 7mm/0.4in x 0.27in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 429-440mm/16.89-17.32in |
| Unit weight | 9.8kg/21.6lb |

Packed Dimensions & Weight

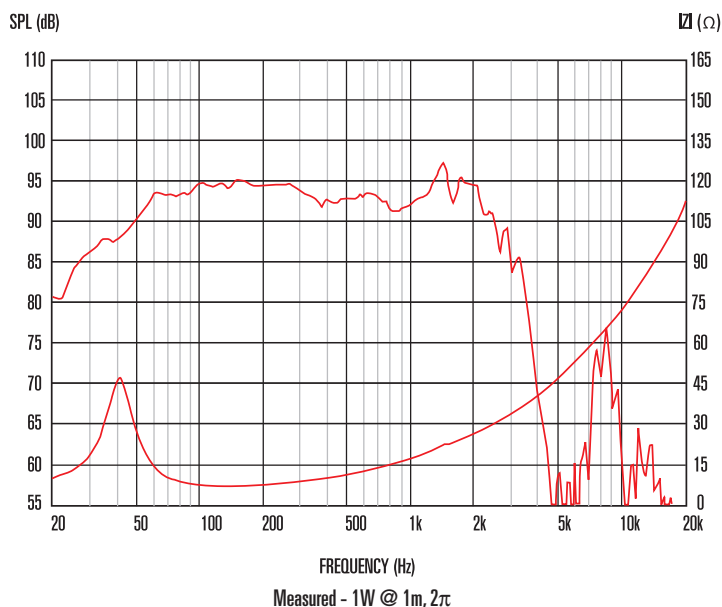
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 500mm x 500mm x 240mm |
| | /19.7in x 19.7in x 9.4in |
| Single pack weight | 11.6kg/25.6lb |
| Multipack (24) size W x D x H | 1210mm x 1050mm x 980mm |
| | /47.6in x 41.3in x 35.4in |
| Multipack (24) weight | 278kg/608lb |



Features

- 18" ferrite subwoofer provides 1000Wrms (AES standard) power handling and a frequency response of 30Hz-2500Hz
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Double suspension and a "multi-roll" surround provide exceptional linearity at extremes of cone excursion
- Intelligent heat management in both chassis and magnet assembly design further minimizes distortion
- Less than 10kg – very low pink weight for this product class

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



FTR18-4080FD

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 97dB |
| Frequency range | 30-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 6mm/0.24in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 22mm/0.87in |

Small Signal Parameters⁵

| | |
|--------------|-------------------------------|
| D | 0.38m/14.96in |
| Fs | 26Hz |
| Mms | 172.42g/6.08oz |
| Qms | 4.33 |
| Qes | 0.29 |
| Qts | 0.27 |
| Re | 5.39Ω |
| Vas | 395.56lt/13.96ft ³ |
| Bl | 22.88Tm |
| Cms | 0.22mm/N |
| Rms | 6.506kg/s |
| Le (at 1kHz) | 1.41mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 452mm/17.8in |
| Overall depth | 205mm/8.07in |
| Cut-out diameter | 416mm/16.38in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 429-440mm/16.89-17.32in |
| Unit weight | 9.8kg/21.6lb |

Packed Dimensions & Weight

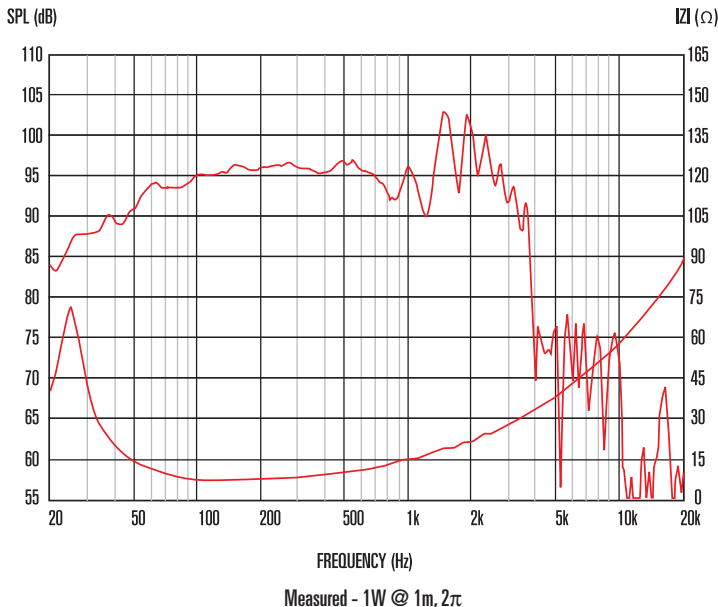
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 500mm x 500mm x 240mm |
| | /19.7in x 19.7in x 9.4in |
| Single pack weight | 11.6kg/25.6lb |
| Multi pack (24) size W x D x H | 1500mm x 1000mm x 980mm |
| | /59.1in x 39.4in x 38.6in |
| Multi pack (24) weight | 278kg/608lb |



Features

- 18" ferrite woofer provides 1000Wrms power handling (AES Standard) and 97dB sensitivity
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexirol™ surround for greater excursion control
- Double suspension for exceptional linearity at the highest excursions
- Low frequency response, down to 30Hz
- Smart chassis design minimises acoustic distortion
- Specially treated, weather-resistant cone

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

FTR18-4080F

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 457mm/18in |
| Power rating ¹ | 600Wrms |
| Continuous power rating ² | 1200W |
| EIA power rating ³ | 800W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 30-3000Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 6mm/0.24in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 22mm/0.87in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.38m/14.96in |
| Fs | 32.7Hz |
| Mms | 158.22g/5.58oz |
| Qms | 5.24 |
| Qes | 0.32 |
| Qts | 0.30 |
| Re | 5.31Ω |
| Vas | 271.99lt/9.6ft ³ |
| Bl | 23.31Tm |
| Cms | 0.15mm/N |
| Rms | 6.21kg/s |
| Le (at 1kHz) | 1.46mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 452mm/17.8in |
| Overall depth | 205mm/8.07in |
| Cut-out diameter | 416mm/16.38in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 429-440mm/16.89-17.32in |
| Unit weight | 9.7kg/21.4lb |

Packed Dimensions & Weight

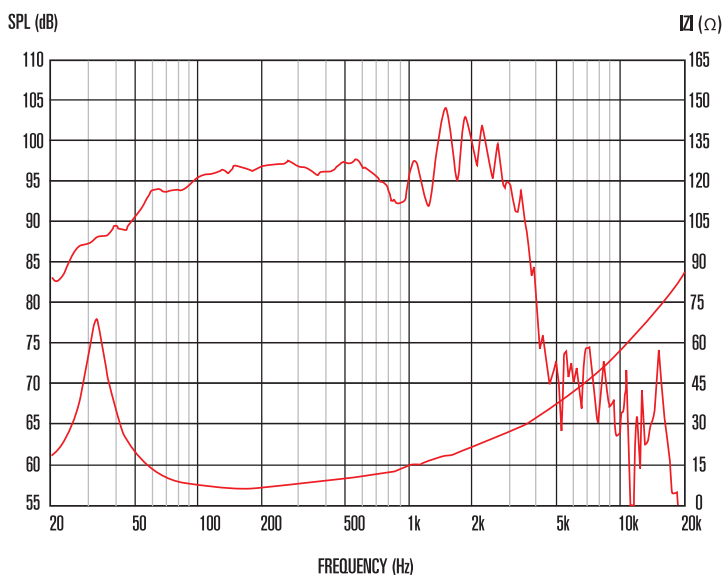
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 500mm x 500mm x 240mm |
| | /19.7in x 19.7in x 9.4in |
| Single pack weight | 11.5kg/25.4lb |
| Multi pack (24) size W x D x H | 1500mm x 1000mm x 980mm |
| | /59.1in x 39.4in x 38.6in |
| Multi pack (24) weight | 278kg/608lb |



Features

- 18" ferrite woofer provides 600Wrms power handling (AES Standard) and 97dB sensitivity
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexiro™ surround for greater excursion control
- Low frequency response, down to 30Hz
- Smart chassis design minimises acoustic distortion
- Specially treated weather-resistant cone

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



FTR15-4080HDX

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 96dB |
| Frequency range | 40-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 8mm/0.33in |
| Gap depth | 9.5mm/0.37in |
| Voice coil winding width | 25mm/0.99in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 40.5Hz |
| Mms | 153.53g/5.42oz |
| Qms | 3.98 |
| Qes | 0.36 |
| Qts | 0.33 |
| Re | 5.10Ω |
| Vas | 104.27lt/3.68ft ³ |
| Bl | 23.53Tm |
| Cms | 0.10mm/N |
| Rms | 9.81kg/s |
| Le (at 1kHz) | 1.8mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 387mm/15.24in |
| Overall depth | 180mm/7.1in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 9.7kg/21.3lb |

Packed Dimensions & Weight

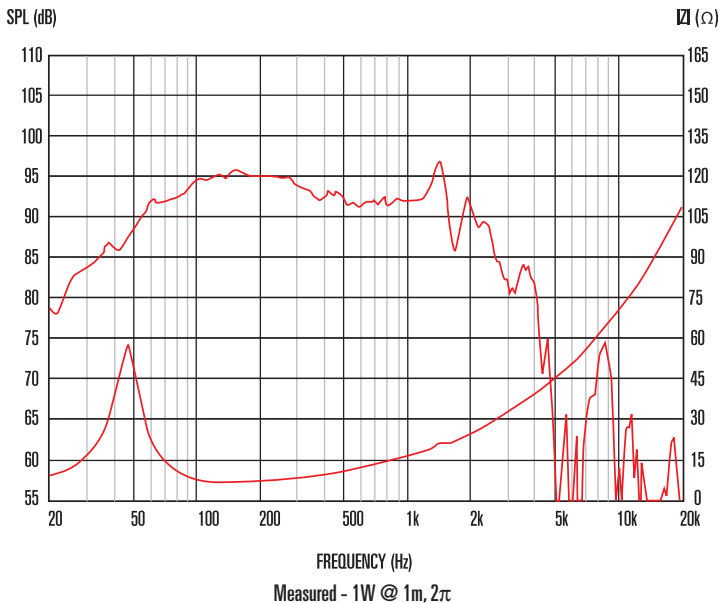
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | /17.1in x 17.1in x 7.9in |
| Single pack weight | 11.5kg/25.4lb |
| Multipack (36) size W x D x H | 1210mm x 1050mm x 980mm |
| | /47.6in x 41.3in x 35.4in |
| Multipack (36) weight | 390kg/860lb |



Features

- 15" ferrite woofer provides 1000Wrms (AES standard) power handling and a frequency response of 40Hz-2500Hz
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Double suspension and a "multi-roll" surround provide exceptional linearity at extremes of cone excursion
- Intelligent heat management in both chassis and magnet assembly design further minimizes distortion
- Less than 10kg – very low weight for this product class

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

FTR15-4080HD

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 95dB |
| Frequency range | 35-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 8mm/0.33in |
| Gap depth | 9.5mm/0.37in |
| Voice coil winding width | 25mm/0.98in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 37.1Hz |
| Mms | 130.4g/4.6oz |
| Qms | 4.67 |
| Qes | 0.33 |
| Qts | 0.31 |
| Re | 5.89Ω |
| Vas | 146.29lt/5.16ft ³ |
| Bl | 23.15Tm |
| Cms | 0.14mm/N |
| Rms | 6.51kg/s |
| Le (at 1kHz) | 1.59mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 387mm/15.24in |
| Overall depth | 173mm/6.81in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 9.5kg/20.9lb |

Packed Dimensions & Weight

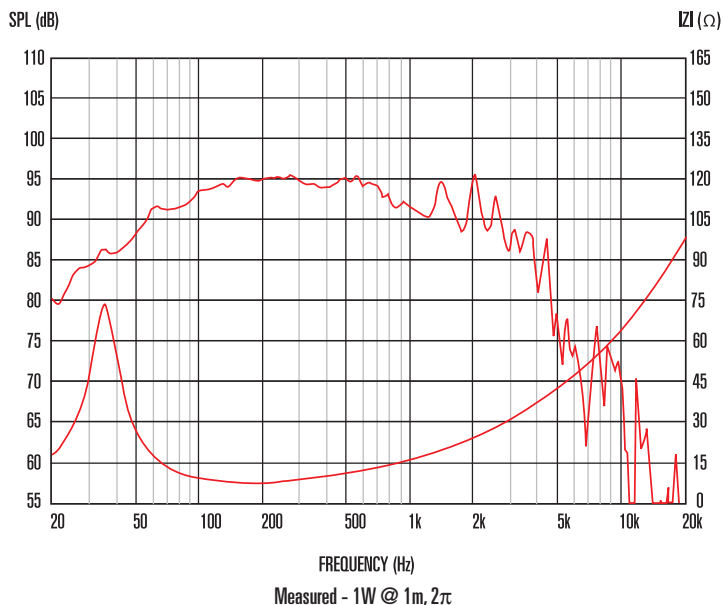
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | /17.1in x 17.1in x 7.9in |
| Single pack weight | 10.8kg/23.8lb |
| Multi pack (36) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (36) weight | 390kg/860lb |



Features

- 15" ferrite woofer provides 1000Wrms power handling (AES Standard) and 95dB sensitivity
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexirol™ technology for greater excursion control
- Double suspension for exceptional linearity at the highest excursions
- Optimised for very long throw applications
- Smart chassis design minimises acoustic distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.



FTR15-4080FD

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 97dB |
| Frequency range | 35-2500Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 6mm/0.24in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 22mm/0.87in |

Small Signal Parameters⁵

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 34.3Hz |
| Mms | 126.39g/4.46oz |
| Qms | 3.27 |
| Qes | 0.27 |
| Qts | 0.25 |
| Re | 5.21Ω |
| Vas | 176.6lt/6.23ft ³ |
| Bl | 22.89Tm |
| Cms | 0.17mm/N |
| Rms | 8.162kg/s |
| Le (at 1kHz) | 1.38mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 387mm/15.24in |
| Overall depth | 170mm/6.69in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 9.5kg/20.9lb |

Packed Dimensions & Weight

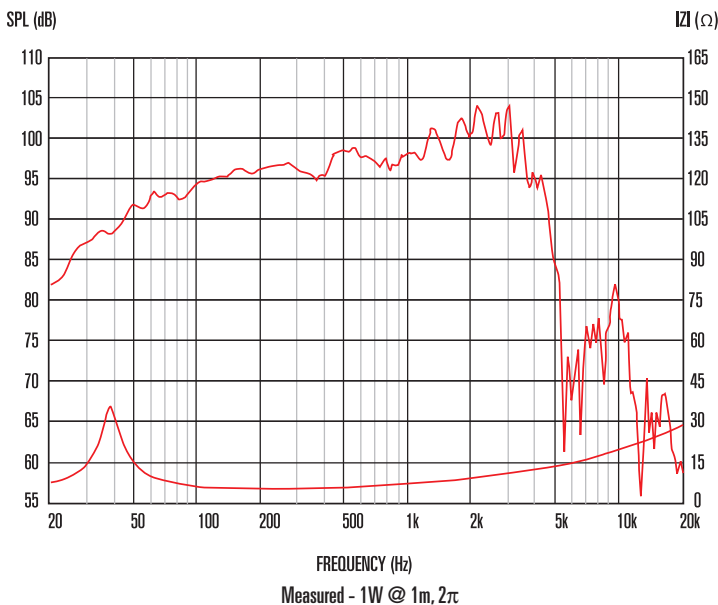
| | |
|--------------------------------|--------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | 17.1in x 17.1in x 7.9in |
| Single pack weight | 10.8kg/23.8lb |
| Multi pack (36) size W x D x H | 1200mm x 1000mm x 980mm |
| | 47.2in x 39.4in x 38.6in |
| Multi pack (36) weight | 390kg/860lb |



Features

- 15" ferrite woofer provides 1000Wrms power handling (AES Standard) and 97dB sensitivity
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexirol™ surround for greater excursion control
- Double suspension for exceptional linearity at the highest excursions
- Low frequency response, down to 35Hz
- Smart chassis design minimises acoustic distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

FTR15-4080F

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 600Wrms |
| Continuous power rating ² | 1200W |
| EIA power rating ³ | 800W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 35-3000Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 6mm/0.24in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 22mm/0.87in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 35Hz |
| Mms | 117.83g/4.16oz |
| Qms | 3.68 |
| Qes | 0.26 |
| Qts | 0.24 |
| Re | 5.62Ω |
| Vas | 182.8lt/6.45ft ³ |
| Bl | 23.69Tm |
| Cms | 0.18mm/N |
| Rms | 7.019kg/s |
| Le (at 1kHz) | 1.48mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 387mm/15.24in |
| Overall depth | 170mm/6.69in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 9.4kg/20.7lb |

Packed Dimensions & Weight

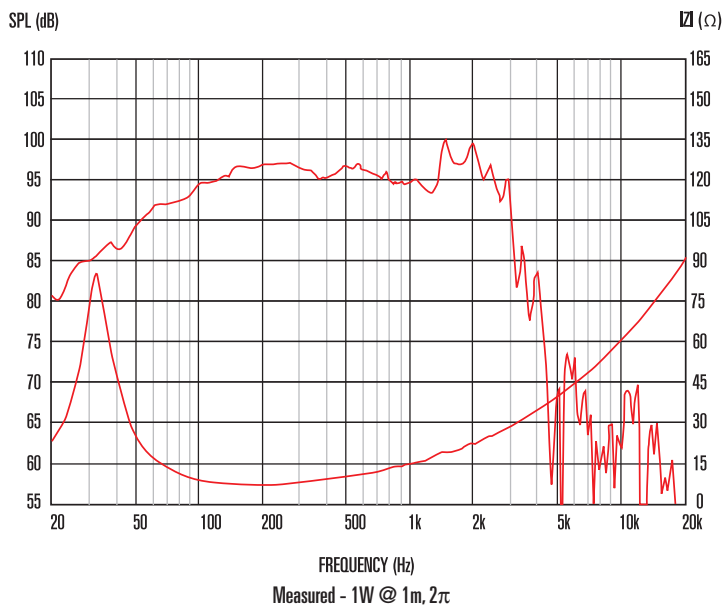
| | |
|--------------------------------|--------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | 17.1in x 17.1in x 7.9in |
| Single pack weight | 10.7kg/23.6lb |
| Multi pack (36) size W x D x H | 1200mm x 1000mm x 980mm |
| | 47.2in x 39.4in x 38.6in |
| Multi pack (36) weight | 390kg/860lb |



Features

- 15" ferrite woofer provides 600Wrms power handling (AES Standard) and 97dB sensitivity
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexiro™ surround for greater excursion control
- Low frequency response, down to 35Hz
- Smart chassis design minimises acoustic distortion
- Specially treated weather-resistant cone

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



FTR15-3070E

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 400Wrms |
| Continuous power rating ² | 800W |
| EIA power rating ³ | 550W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 40-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 2.3kg/81oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather-resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 5.5mm/0.22in |
| Gap depth | 9mm/0.35in |
| Voice coil winding width | 20mm/0.79in |

Small Signal Parameters⁶

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 45.3Hz |
| Mms | 88.69g/3.13oz |
| Qms | 3.07 |
| Qes | 0.46 |
| Qts | 0.40 |
| Re | 5.36Ω |
| Vas | 143.85lt/5.08ft ³ |
| Bl | 17.24Tm |
| Cms | 0.14mm/N |
| Rms | 8.22kg/s |
| Le (at 1kHz) | 1.3mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 387mm/15.24in |
| Overall depth | 161mm/6.34in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 6.4kg/14.1lb |

Packed Dimensions & Weight

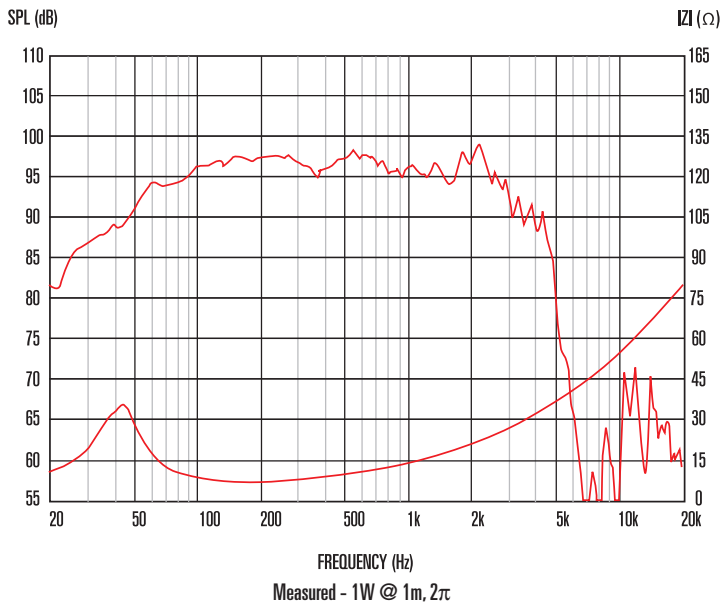
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | /17.1in x 17.1in x 7.9in |
| Single pack weight | 7.7kg/17.0lb |
| Multipack (36) size W x D x H | 1210mm x 1050mm x 980mm |
| | /47.6in x 41.3in x 35.4in |
| Multipack (36) weight | 278kg/613lb |



Features

- 15" ferrite woofer provides 400Wrms power handling (AES Standard) and 97dB sensitivity
- 3" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexirol™ surround for greater excursion control
- Low frequency response, down to 40Hz
- Smart chassis design minimises acoustic distortion
- Specially treated weather-resistant cone

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

FTR15-3070C

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter (mm/in) | 381mm/15in |
| Power rating ¹ | 400Wrms |
| Continuous power rating ² | 800W |
| EIA power rating ³ | 550W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 99dB |
| Frequency range | 40-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Magnet weight | 2.3kg/81oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather-resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3mm/0.12in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 38.8Hz |
| Mms | 84.15g/2.97oz |
| Qms | 7.10 |
| Qes | 0.38 |
| Qts | 0.36 |
| Re | 6.50Ω |
| Vas | 208.0lt/7.34ft ³ |
| Bl | 18.70Tm |
| Cms | 0.20mm/N |
| Rms | 2.86kg/s |
| Le (at 1kHz) | 0.59mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 387mm/15.24in |
| Overall depth | 158mm/6.22in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting PCD range | 365-375mm/14.37-14.76in |
| Unit weight | 6.3kg/13.8lb |

Packed Dimensions & Weight

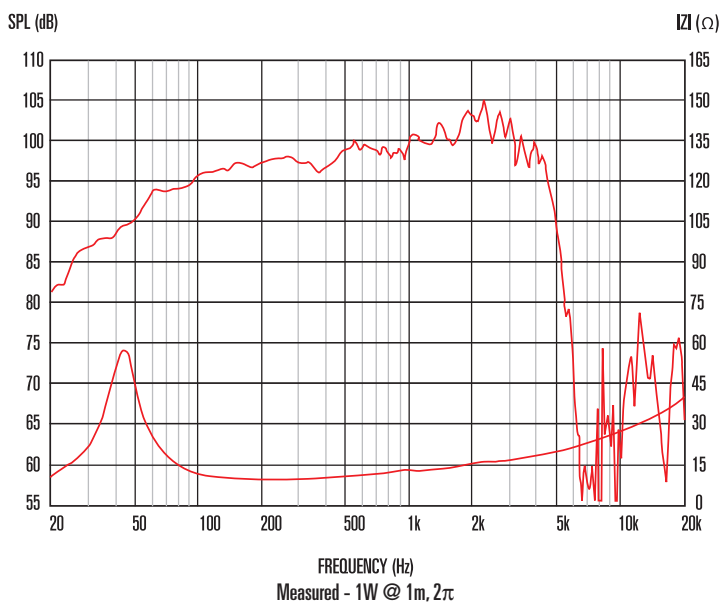
| | |
|--------------------------------|--------------------------|
| Single pack size W x D x H | 435mm x 435mm x 200mm |
| | 17.1in x 17.1in x 7.9in |
| Single pack weight | 7.7kg/17.0lb |
| Multi pack (36) size W x D x H | 1200mm x 1000mm x 980mm |
| | 47.2in x 39.4in x 38.6in |
| Multi pack (36) weight | 278kg/613lb |



Features

- 15" ferrite woofer provides 400Wrms power handling (AES Standard) and 99dB sensitivity
- 3" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Flexirol™ surround for greater excursion control
- Saturated gap technology for lower harmonic distortion
- Low frequency response, down to 40Hz
- Smart chassis design minimises acoustic distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



FTR12-4080HDX

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 1000Wrms |
| Continuous power rating ² | 2000W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 93dB |
| Frequency range | 47-3000Hz |
| Voice coil diameter | 100mm/4in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 3.1kg/110oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather-resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Double |
| Xmax ⁴ | 8mm/0.32in |
| Gap depth | 9.5mm/0.37in |
| Voice coil winding width | 25mm/0.98in |

Small Signal Parameters⁵

| | |
|--------------|------------------------------|
| D | 0.26m/10.24in |
| Fs | 61.2Hz |
| Mms | 108.68g/3.84oz |
| Qms | 2.228 |
| Qes | 0.446 |
| Qts | 0.372 |
| Re | 6.05Ω |
| Vas | 24.79lt/0.875ft ³ |
| Bl | 23.81Tm |
| Cms | 0.062mm/N |
| Rms | 18.768kg/s |
| Le (at 1kHz) | 1.92mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Overall diameter | 313mm/12.3in |
| Overall depth | 158mm/6.2in |
| Cut-out diameter | 282mm/11.1in |
| Mounting slot dimensions | 10mm x 7mm/0.39in x 0.27in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 291-301mm/11.7-11.9in |
| Unit weight | 9.6kg/21.1lb |

Packed Dimensions & Weight

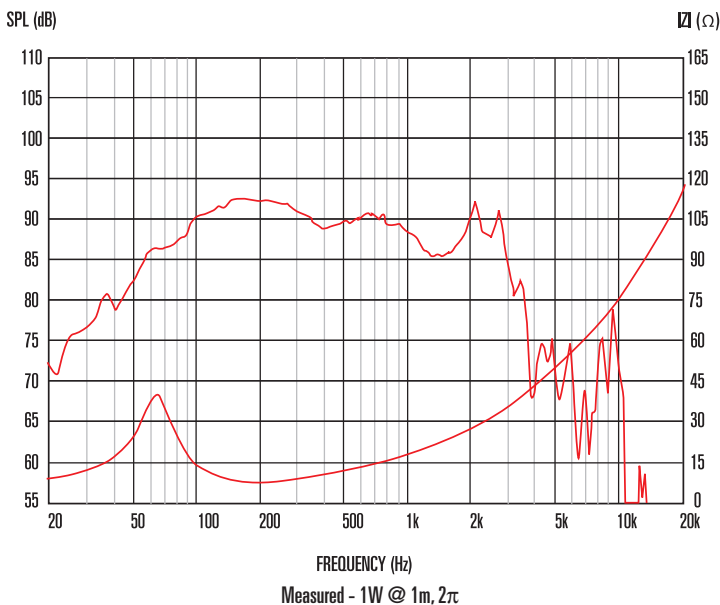
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 350mm x 350mm x 180mm |
| | /13.8in x 13.8in x 7.1in |
| Single pack weight (kg/lb) | 11.4kg/25.1lb |
| Multipack (36) size W x D x H | 1210mm x 1050mm x 980mm |
| | /47.6in x 41.3in x 35.4in |
| Multipack (36) weight | 380kg/836lb |



Features

- 12" ferrite subwoofer provides 1000Wrms (AES standard) power handling and a frequency response of 47Hz-3kHz
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- Double suspension and a "multi-roll" surround provide exceptional linearity at extremes of cone excursion
- Intelligent heat management in both chassis and magnet assembly design further minimizes distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.
 5. Small signal parameters measured after unit subjected to pre-conditioning signal.

NEW

FTR12-3070F

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 450Wrms |
| Continuous power rating ² | 900W |
| EIA power rating ³ | 600W |
| Nominal impedance | 8 Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 40-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 2.6kg/73oz |
| Coil material | Edgewound copper clad aluminium |
| Former material | Polyimide |
| Cone material | Glass reinforced paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 6mm/0.24in |
| Gap depth | 8mm/0.34in |
| Voice coil winding width | 20mm/0.79in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.26m/10.23in |
| Fs | 52.5Hz |
| Mms | 62.18g/2.19oz |
| Qms | 5.01 |
| Qes | 0.32 |
| Qts | 0.3 |
| Re | 5.21 Ω |
| Vas | 58.87lt/2.1ft ³ |
| Bl | 18.33Tm |
| Cms | 0.148mm/N |
| Rms | 4.1kg/s |
| Le (at 1kHz) | 1.1mH |

Mounting Information

| | |
|--------------------------|----------------------------|
| Diameter | 313mm/12.3in |
| Overall depth | 150mm/5.9in |
| Cut-out diameter | 285mm/11.2in |
| Mounting slot dimensions | 7mm x 10mm/0.27in x 0.38in |
| Number of mounting slots | 8 |
| Mounting PCD range | 294-304mm/11.6 -12in |
| Unit weight | 6.7kg/14.7lb |

Packed Dimensions & Weight

| | |
|--------------------------------|---------------------------|
| Multi pack (60) size W x D x H | 1210mm x 1050mm x 980mm |
| | /47.6in x 41.3in x 38.6in |
| Multi pack (60) weight | 430kg/946lb |



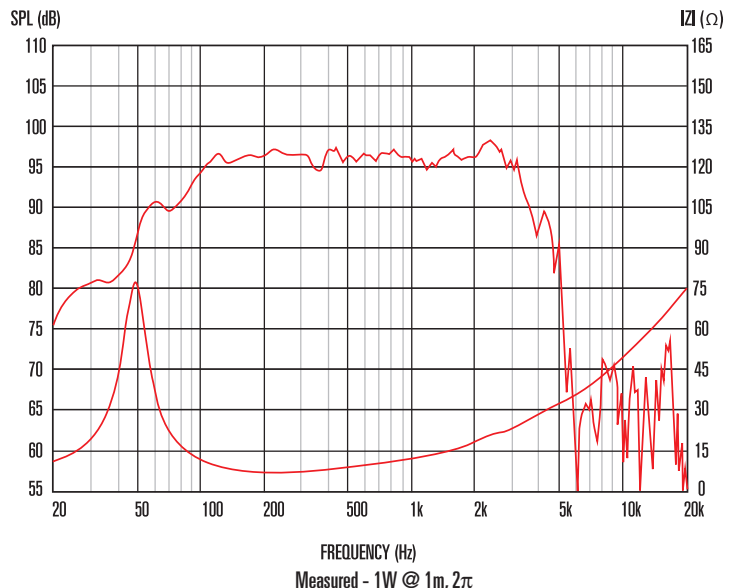
PRELIMINARY INFORMATION



Features

- 12" ferrite woofer provides 900Wrms continuous power handling and 98dB sensitivity
- Celestion special-design cone for enhanced bass response
- 3" high temperature voice coil wound on polyimide for increased reliability
- Finite element analysis optimised magnet assembly prevents sensitivity loss due to thermal compression
- "M-Roll" surround provides progressive excursion control, generating a smooth frequency response
- Smart cast aluminium chassis design minimises reflections back onto the cone, significantly reducing distortion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2 π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



FTR12-3070C

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|--------------------------------------------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 350Wrms |
| Continuous power rating ² | 700W |
| EIA power rating ³ | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 96dB |
| Frequency range | 40-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet Weight | 2.3kg/81oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded paper with weather-resistant impregnation |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4mm/0.16in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 66.1Hz |
| Mms | 58.51g/2.07oz |
| Qms | 2.90 |
| Qes | 0.375 |
| Qts | 0.332 |
| Re | 5.44Ω |
| Vas | 39.57lt/1.40ft ³ |
| Bl | 18.78Tm |
| Cms | 0.099mm/N |
| Rms | 8.374kg/s |
| Le (at 1kHz) | 1.25mH |

Mounting Information

| | |
|--------------------------|------------------------------|
| Overall diameter | 318mm/12.5in |
| Overall depth | 102mm/4.02in |
| Cut-out diameter | 286mm/11.26in |
| Mounting slot dimensions | 7.5mm x 6.5mm/0.3in x 0.26in |
| Number of mounting slots | 8 |
| Mounting slot PCD range | 298-304mm/11.7-12.0in |
| Unit weight | 6.3kg/13.9lb |

Packed Dimensions and Weight

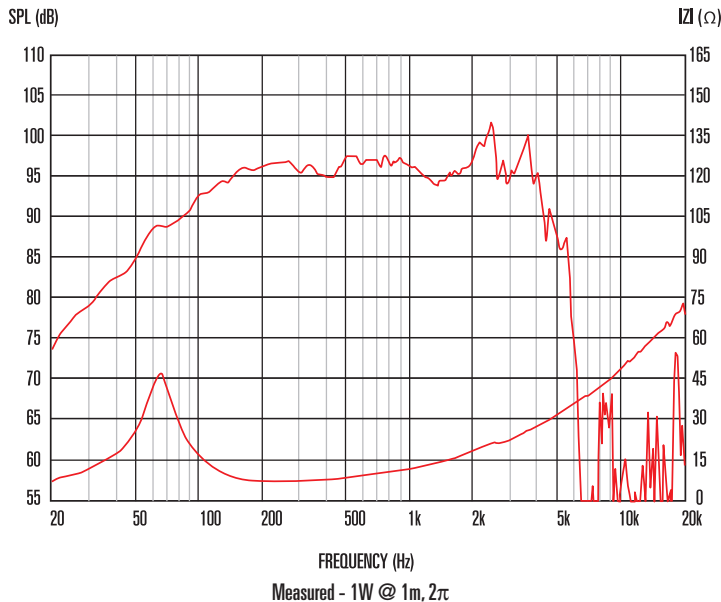
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 350mm x 350mm x 180mm |
| | /13.8in x 13.8in x 7.1in |
| Single pack weight | 8.1kg/17.8lb |
| Multipack (60) size W x D x H | 1210mm x 1050mm x 980mm |
| | /47.6in x 41.3in x 35.4in |
| Multipack (60) weight | 400kg/880lb |



Features

- 12" ferrite mid/bass driver provides 350Wrms (AES standard) power handling and 96dB sensitivity
- 3" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss due to thermal compression
- Low frequency response, down to 40Hz
- Intelligent heat management in both chassis and magnet assembly design further minimizes distortion
- Specially treated weather-resistant cone

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

NEW

FTR12-2565D

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| EIA power rating ³ | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 95dB |
| Frequency range | 55-4000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.5kg/43oz |
| Coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4mm/0.16in |
| Gap depth | 8mm/0.33in |
| Voice coil winding width | 16.5mm/0.65in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.23in |
| Fs | 53.9Hz |
| Mms | 52.22g/1.84oz |
| Qms | 2.41 |
| Qes | 0.481 |
| Qts | 0.401 |
| Re | 5.66Ω |
| Vas | 66.54lt/2.35ft ³ |
| Bl | 14.42Tm |
| Cms | 0.167mm/N |
| Rms | 7.346kg/s |
| Le (at 1kHz) | 0.99mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Diameter | 318mm/12.5in |
| Overall depth | 134mm/5.3in |
| Cut-out diameter | 285mm/11.2in |
| Mounting slot dimensions | 6.5mm x 9.5mm/0.26in x 0.37in |
| Number of mounting slots | 8 |
| Mounting PCD range | 298-304mm/11.7-11.9in |
| Unit weight | 4.5kg/9.9lb |

Packed Dimensions & Weight

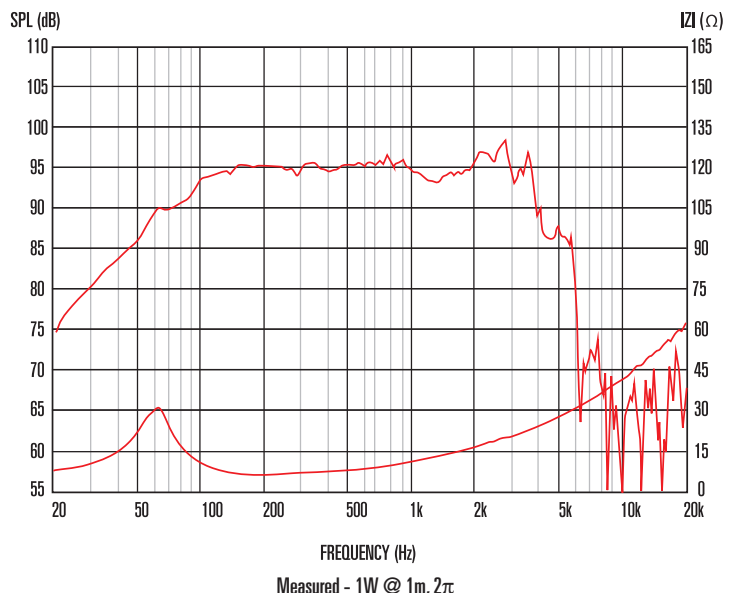
| | |
|--------------------------------|---------------------------|
| Multi pack (36) size W x D x H | 1210mm x 1050mm x 700mm |
| | /47.6in x 41.3in x 27.6in |
| Multi pack (36) weight | 185kg/410lb |



Features

- 12" cast aluminium chassis bass/mid speaker provides 500Wrms continuous power handling and 95dB sensitivity
- 2.5" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss due to thermal compression
- "M-Roll" surround provides progressive excursion control, generating a smoother frequency response
- Intelligent heat management in both chassis and magnet assembly further minimizes distortion
- Cost-effective unit, ideal for use in 2-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

NEW

FTR10-2055D

Ferrite magnet cast aluminium chassis driver



General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 35W |
| EIA power rating ³ | 800W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 93.5dB |
| Frequency range | 60-4000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.3kg/36oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4mm/0.16in |
| Gap depth | 8mm/0.33in |
| Voice coil winding width | 16mm/0.64in |

Small Signal Parameters⁶

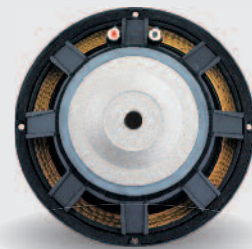
| | |
|--------------|-----------------------------|
| D | 0.21m/8.27in |
| Fs | 56Hz |
| Mms | 35.02g/1.18oz |
| Qms | 3.558 |
| Qes | 0.432 |
| Qts | 0.385 |
| Re | 6.01Ω |
| Vas | 39.15lt/1.38ft ³ |
| Bl | 13.09Tm |
| Cms | 0.231mm/N |
| Rms | 3.463kg/s |
| Le (at 1kHz) | 1.01mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Diameter | 260mm/10.2in |
| Overall depth | 112mm/4.4in |
| Cut-out diameter | 232mm/9.1in |
| Mounting slot dimensions | 6.5mm x 7.5mm/0.26in x 0.29in |
| Number of mounting slots | 4 |
| Mounting PCD range | 244-247mm/9.6-9.7in |
| Unit weight | 4kg/8.8lb |

Packed Dimensions & Weight

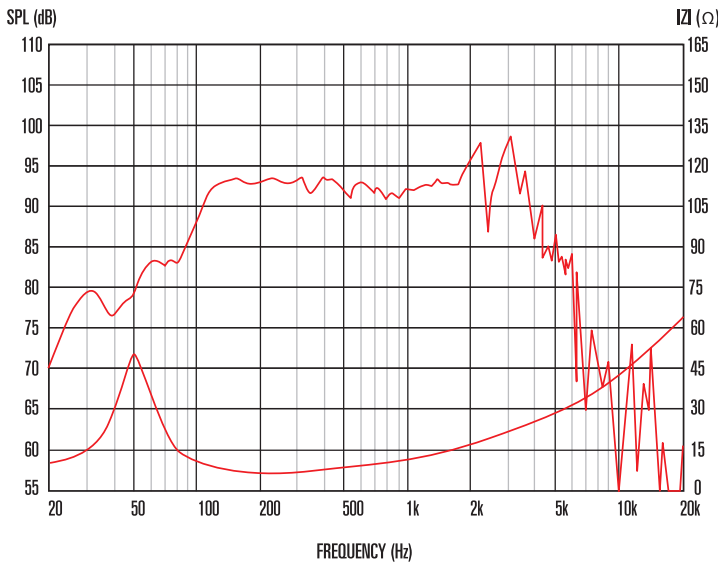
| | |
|--------------------------------|-------------------------|
| Multi pack (36) size W x D x H | 1080mm x 960mm x 890mm |
| | /42.5in x 37.8in x 35in |
| Multi pack (36) weight | 175kg/385lb |



Features

- 10" cast aluminium chassis bass/mid speaker provides 400Wrms continuous power handling and 94dB sensitivity
- 2" high temperature copper voice coil wound on polyimide for increased reliability
- Multi-roll surround for exceptional linearity at extremes of cone excursion
- Intelligent heat management in both chassis and magnet assembly prevents sensitivity loss due to thermal compression
- Cost-effective unit, ideal for use in 2-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Axi | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

FTR08-2011D

Ferrite magnet cast aluminium chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 200mm/8in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 400W |
| EIA power rating ³ | 350W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 93dB |
| Frequency range | 70-6000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Cast Aluminium |
| Magnet type | Ferrite |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3.5mm/0.137in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 15mm/0.59in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.17m/6.69in |
| Fs | 88.4Hz |
| Mms | 26.94g/0.95oz |
| Qms | 2.594 |
| Qes | 0.572 |
| Qts | 0.469 |
| Re | 5.74Ω |
| Vas | 8.77lt/0.30ft ³ |
| Bl | 12.26Tm |
| Cms | 0.12mm/N |
| Rms | 5.769kg/s |
| Le (at 1kHz) | 0.39mH |

Mounting Information

| | |
|--------------------------|---------------|
| Diameter | 225mm/8.8in |
| Overall depth | 102mm/4.0in |
| Cut-out diameter | 187mm/7.4in |
| Mounting slot dimensions | Ø6.5mm/0.26in |
| Number of mounting slots | 8 |
| Mounting PCD range | 210mm/8.3in |
| Unit weight | 3.65kg/8.0lb |

Packed Dimensions and Weight

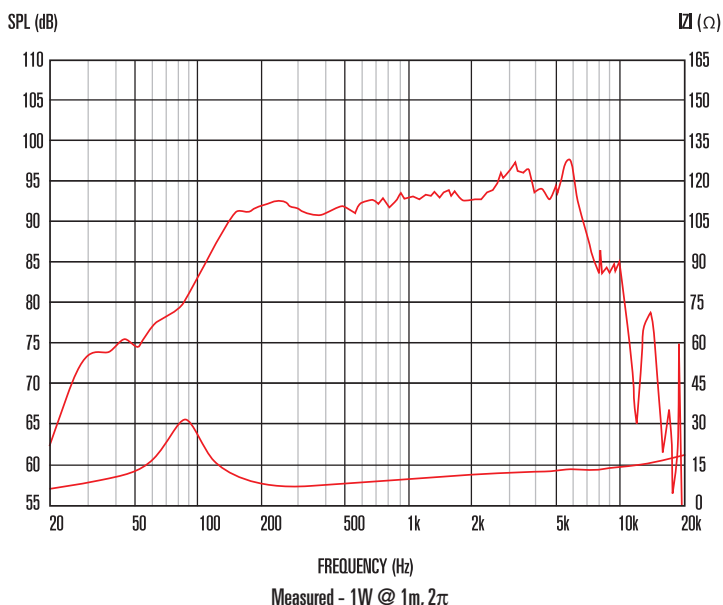
| | |
|------------------------------|--------------------------|
| Single pack size W x D x H | 226mm x 226mm x 130mm |
| | 8.9in x 8.9in x 5.1in |
| Single pack weight | 3.8kg/8.4lb |
| Multipack (8) size W x D x H | 470mm x 450mm x 270mm |
| | 18.5in x 17.7in x 10.6in |
| Multipack (8) weight | 31kg/68.3lb |



Features

- 8" ferrite magnet driver providing 200Wrms (AES standard) power handling and 93dB sensitivity
- 2" high temperature copper voice coil
- Suitable for line array applications, utilizing a space-efficient octagonal chassis profile
- Optimized flux distribution in magnet assembly provides low harmonic distortion
- "M-Roll" surround provides progressive excursion control, generating a smooth frequency response
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

LF Pressed Chassis Neo

Neo magnet pressed steel chassis drivers

Range Overview

From the development team that pioneered the use of Neodymium in a high-power professional driver comes an advanced range of pressed steel chassis loudspeakers utilising the same powerful magnet technology.

Designed with extensive use of FEA modelling techniques, the TN Series comprises 8, 10, 12 and 15 inch models, all built and tested to withstand whatever the toughest applications can throw at them. TN drivers provide system builders with a high-performance, high-power LF solution with the added advantage of significantly lower weight, compared with ferrite magnet loudspeakers of corresponding size and power.



TN Steel Neo Range

| | Nominal Diameter | Power Rating* | Nominal Impedance | Sensitivity | Frequency Range | Voice Coil Diameter | Unit Weight |
|---------------|------------------|---------------|-------------------|-------------|-----------------|---------------------|-------------|
| TN1530 | 381mm/15in | 300Wrms | 8Ω | 98dB | 40-3000Hz | 75mm/3in | 2.8kg/6.2lb |
| TN1230 | 305mm/12in | 300Wrms | 8Ω | 97dB | 50-4000Hz | 75mm/3in | 2kg/4.4lb |
| TN1225 | 305mm/12in | 250Wrms | 8Ω | 99dB | 50-4000Hz | 64mm/2.5in | 2kg/4.4lb |
| TN1020 | 254mm/10in | 150Wrms | 8Ω | 98dB | 65-4000Hz | 50mm/2in | 1.5kg/3.4lb |
| TN0820 | 200mm/8in | 150Wrms | 8Ω | 94dB | 60-4000Hz | 50mm/2in | 1.3kg/2.9lb |

*AES Standard

Key Technologies

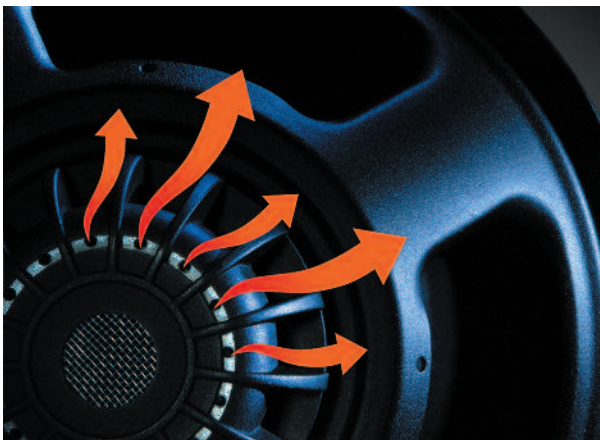
Smart use of venting, coupled with the application of a specially designed heatsink enables TN Series loudspeakers to rapidly reduce voice coil temperature. Venting is strategically engineered within the magnet assembly to maximise airflow, reducing voice coil overheat and thereby minimising thermal compression (where SPL diminishes as temperature increases).

A secondary magnet is employed within the assembly to control the flow of magnetic flux, channelling more of the available flux back into the voice coil gap. This results in a measurable increase in BI, enabling higher sensitivity models can be produced where the application demands.

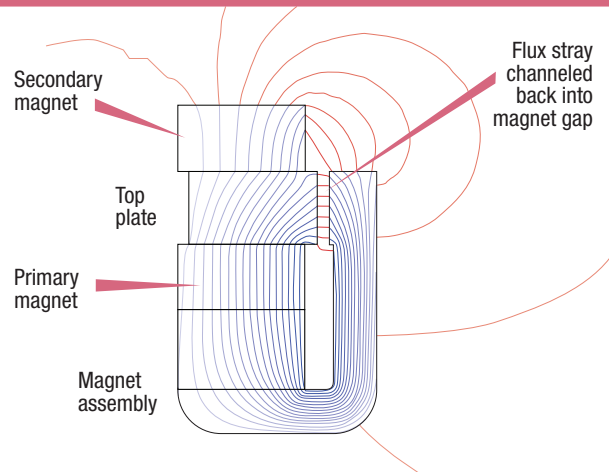
Neodymium magnet efficiency is significantly dependent on surface area; by optimising TN Series magnet topology, surface area is maximised without increasing overall size. And with weight reduction as a key objective, the TN Series features a low mass, high strength steel chassis for maximum energy transfer. The result is a highly efficient and consequently, cost-effective and lightweight professional audio loudspeaker range.

- **Lightweight neodymium magnets for excellent power to weight ratio**
- **Intelligent temperature control for reduced thermal compression**
- **Effective flux management for increased sensitivity**
- **'M-Roll' surround provides progressive excursion control yielding a smooth response at extremes of frequency range**
- **Rigid Kevlar-loaded cone with sealed surround and damping contributes to lower distortion**

Smart venting reduces thermal compression



Effective flux management for increased sensitivity



TN1530

Neodymium magnet steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| EIA power rating ³ | 450W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 40-3000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed steel |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3.75mm/0.148in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 17.5mm/0.69in |

Small Signal Parameters⁶

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 47.6Hz |
| Mms | 99.0g/3.49oz |
| Qms | 3.147 |
| Qes | 0.445 |
| Qts | 0.390 |
| Re | 5.18Ω |
| Vas | 117.02lt/4.13ft ³ |
| Bl | 18.57Tm |
| Cms | 0.113mm/N |
| Rms | 9.404kg/s |
| Le (at 1kHz) | 1.03mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 385mm/15.16in |
| Overall depth | 160mm/6.30in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.2mm x 6.2mm/0.36in x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.53in |
| Unit weight | 2.8kg/6.2lb |

Packed Dimensions & Weight

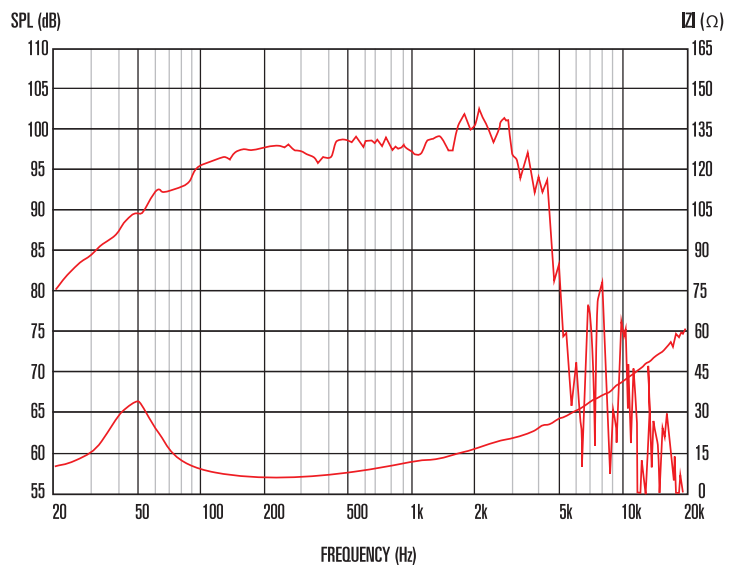
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 410mm x 410mm x 180mm |
| | /16.1in x 16.1in x 7.1in |
| Single pack weight | 3.0kg/6.6lb |
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 140kg/309lb |



Features

- 15" Bass and mid-range driver offering 98dB sensitivity and 300Wrms (AES standard) power handling
- 3" high-temperature copper voice coil wound on polyimide for increased reliability
- FEA optimised compact and lightweight neodymium magnet assembly
- "M-Roll" surround provides progressive excursion control yielding a smooth response at extremes of frequency range
- Smart use of venting and specially designed heatsink for reduced thermal compression
- Effective flux management enables increased sensitivity

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TN1230

Neodymium magnet steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| EIA power rating ³ | 450W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed steel |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3.75mm/0.148in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 17.5mm/0.69in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 54.8Hz |
| Mms | 56.11g/1.98oz |
| Qms | 3.11 |
| Qes | 0.30 |
| Qts | 0.28 |
| Re | 5.33Ω |
| Vas | 59.86lt/2.11ft ³ |
| Bl | 18.45Tm |
| Cms | 0.15mm/N |
| Rms | 6.22kg/s |
| Le (at 1kHz) | 0.94mH |

Mounting Information

| | |
|--------------------------|---------------|
| Overall Diameter | 309mm/12.17in |
| Overall depth | 132mm/5.20in |
| Cut out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting slot PCD | 297mm/11.69in |
| Unit weight | 2.0kg/4.4lb |

Packed Dimensions & Weight

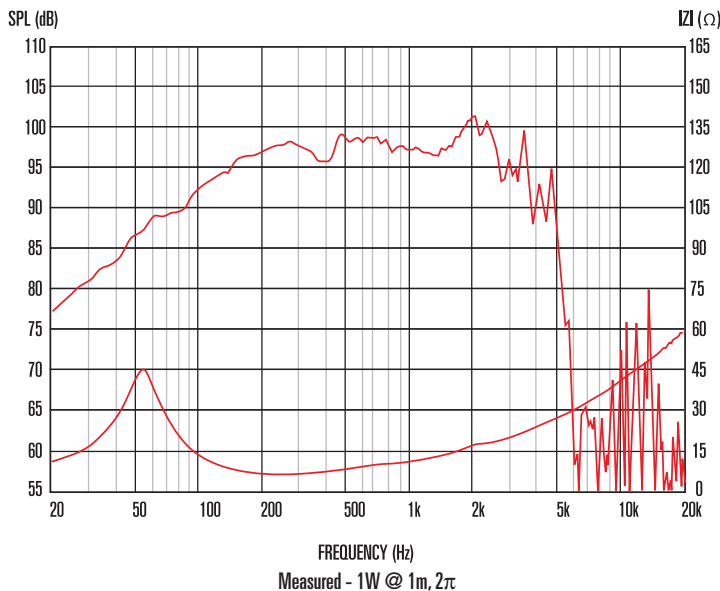
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 2.4kg/5.3lb |
| Multipack (60) size W x D x H | 1008mm x 980mm x 860mm |
| | /39.7in x 38.6in x 33.9in |
| Multipack (60) weight | 146kg/322lb |



Features

- 12" Bass and mid-range driver provides 300Wrms (AES standard) power handling and 99dB sensitivity
- 3" high-temperature copper voice coil wound on polyimide for increased reliability
- FEA optimised neodymium magnet assembly design for lower weight and reduced harmonic distortion
- "M-Roll" surround provides progressive excursion control yielding a smooth response curve at extremes of frequency range
- Kevlar-loaded cone with sealed surround and damping contributes to lower distortion
- Rigid chassis design for maximum energy transfer

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TN1225

Neodymium magnet steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| EIA power rating ³ | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 99dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Pressed steel |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2.5mm/0.099in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 13mm/0.51in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 60.5Hz |
| Mms | 51.15g/1.81oz |
| Qms | 3.03 |
| Qes | 0.37 |
| Qts | 0.33 |
| Re | 5.18Ω |
| Vas | 53.92lt/1.90ft ³ |
| Bl | 16.48Tm |
| Cms | 0.14mm/N |
| Rms | 6.43kg/s |
| Le (at 1kHz) | 0.63mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall Diameter | 309mm/12.17in |
| Overall depth | 132mm/5.20in |
| Cut out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting slot PCD | 297mm/11.69in |
| Unit weight | 2.0kg/4.4lb |

Packed Dimensions & Weight

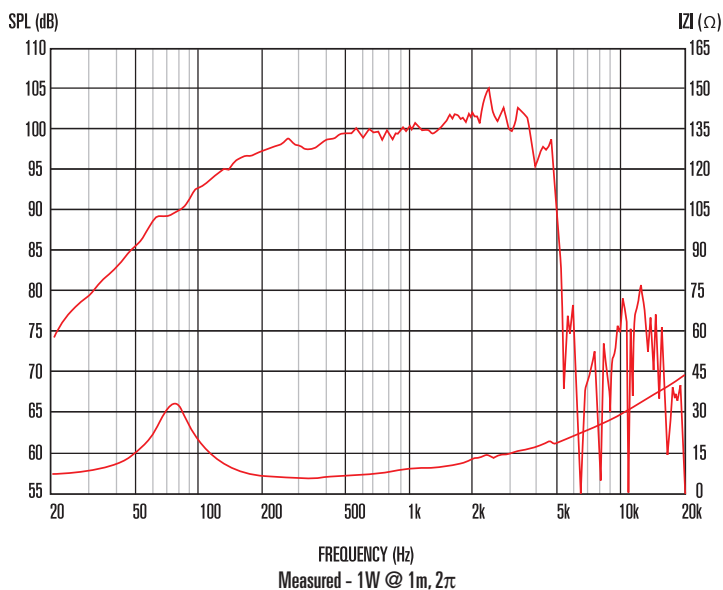
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 2.4kg/5.3lb |
| Multipack (60) size W x D x H | 1008mm x 980mm x 860mm |
| | /39.7in x 38.6in x 33.9in |
| Multipack (60) weight | 146kg/322lb |



Features

- 12" Bass/mid-range driver providing 99dB sensitivity and 250Wrms (AES standard) continuous power handling
- 2.5" high-temperature copper voice coil wound on polyimide for increased reliability
- Features compact and lightweight neodymium magnet assembly
- Smart use of venting and specially designed heatsink for reduced thermal compression
- Effective flux management enables increased sensitivity

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TN1020

Neodymium magnet steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| EIA power rating ³ | 250W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 65-4000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.079in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.21m/8.27in |
| Fs | 80.7Hz |
| Mms | 26.82g/0.95oz |
| Qms | 2.24 |
| Qes | 0.35 |
| Qts | 0.30 |
| Re | 5.62Ω |
| Vas | 24.62lt/0.87ft ³ |
| Bl | 14.84Tm |
| Cms | 0.145mm/N |
| Rms | 6.08kg/s |
| Le (at 1kHz) | 0.46mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Overall Diameter | 256mm/10.08in |
| Overall depth | 110mm/4.33in |
| Cut out diameter | 229mm/9.02in |
| Mounting slot dimensions | 8mm x 6mm/0.31in x 0.24in |
| Number of mounting slots | 8 |
| Mounting slot PCD | 245mm/9.65in |
| Unit weight | 1.5kg/3.4lb |

Packed Dimensions and Weight

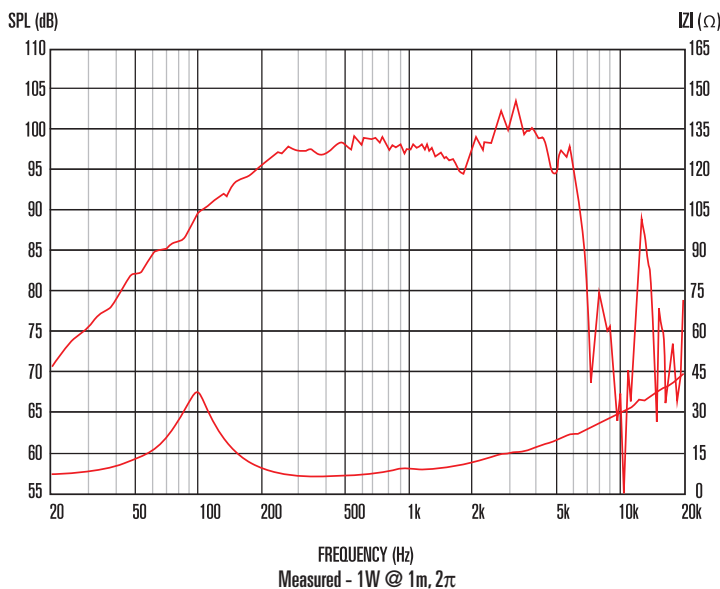
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 280mm x 280mm x 120mm |
| | /11.0in x 11.0in x 4.7in |
| Single pack weight | 1.7kg/3.7lb |
| Multipack (96) size W x D x H | 1008mm x 880mm x 820mm |
| | /39.7in x 34.6in x 32.3in |
| Multipack (96) weight | 165kg/364lb |



Features

- 10" Bass and mid-range driver providing 98dB sensitivity and 150Wrms (AES standard) power handling
- 2" high-temperature copper voice coil wound on polyimide for increased reliability
- Features compact and lightweight neodymium magnet assembly
- Smart use of venting and specially designed heatsink for reduced thermal compression
- Effective flux management enables increased sensitivity

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TN0820

Neodymium magnet steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 203mm/8in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| EIA power rating ³ | 250W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 94dB |
| Frequency range | 60-4000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Neodymium |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.079in |
| Gap depth | 8mm/0.32in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.17m/6.69in |
| Fs | 42.80Hz |
| Mms | 22.28g/0.79oz |
| Qms | 1.34 |
| Qes | 0.28 |
| Qts | 0.23 |
| Re | 5.70Ω |
| Vas | 45.34lt/1.6ft ³ |
| Bl | 11.09Tm |
| Cms | 0.62mm/N |
| Rms | 4.47kg/s |
| Le (at 1kHz) | 0.64mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall Diameter | 208mm/8.19in |
| Overall depth | 100mm/3.94in |
| Cut out diameter | 183mm/7.20in |
| Mounting slot dimensions | 9.5mm x 5.5mm/0.37in x 0.22in |
| Number of mounting slots | 8 |
| Mounting slot PCD | 196mm/7.72in |
| Unit weight | 1.3kg/2.9lb |

Packed Dimensions & Weight

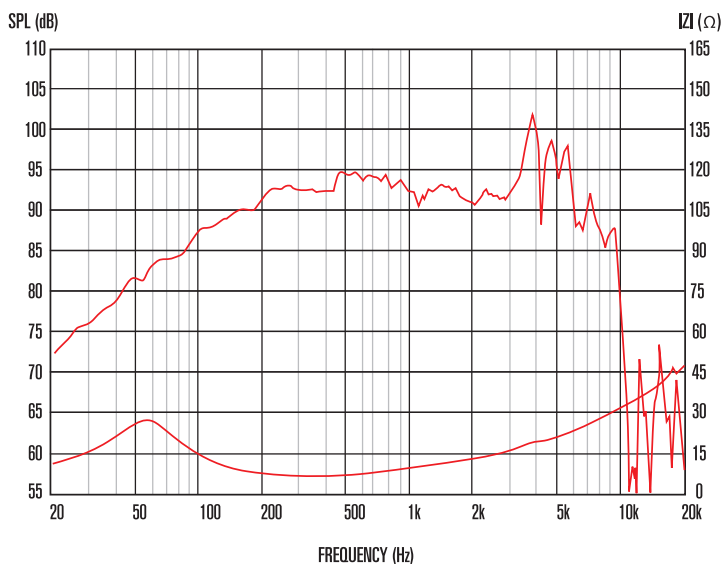
| | |
|--------------------------------|--------------------------|
| Single pack size W x D x H | 230mm x 230mm x 110mm |
| | 9.1in x 9.1in x 4.3in |
| Single pack weight | 1.4kg/3.1lb |
| Multipack (120) size W x D x H | 980mm x 880mm x 840mm |
| | 38.6in x 34.6in x 33.1in |
| Multipack (120) weight | 200kg/441lb |



Features

- 8" driver providing 94dB sensitivity and 150Wrms (AES standard) power handling
- 2" high-temperature copper voice coil wound on polyimide for increased reliability
- Exceptional performance through bass and mid-range
- Features compact and lightweight neodymium magnet assembly
- Smart use of venting and specially designed heatsink for reduced thermal compression
- Effective flux management enables increased sensitivity

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

LF Pressed Chassis Ferrite

Ferrite magnet pressed steel chassis drivers

Range Overview

Developed at Celestion's state-of-the-art loudspeaker R&D facility in the UK, this range of pressed steel chassis drivers offer system builders the optimum combination of performance, reliability and cost. This extensive range of pressed steel chassis, ferrite magnet loudspeakers is available in a range of sizes from 4" to 15" diameter.

Our uncompromising approach to all aspects of design, development, production and testing means these speakers are the first-choice driver for increasing numbers of globally-recognised PA brands.

The extensive nature of the range means that there will be a speaker that is suitable for many different cabinet types and applications including two-way and three-way cabinets, fold-back monitors and bass bins, all of which are ideal for use in small to medium-sized venues.



TF Steel Ferrite Range

| | Nominal Diameter | Power Rating* | Nominal Impedance | Sensitivity | Frequency Range | Voice Coil Diameter | Unit Weight |
|-------------------|------------------|---------------|-------------------|-------------|-----------------|---------------------|--------------|
| TF1530P | 381mm/15in | 500Wrms | 4Ω | 95dB | 35-2500Hz | 75mm/3in | 6.8kg/15lb |
| TF1530e | 381mm/15in | 400Wrms | 8Ω | 98dB | 40-3000Hz | 75mm/3in | 6.5kg/14.3lb |
| TF1530 | 381mm/15in | 400Wrms | 4/8Ω | 99dB | 40-3000Hz | 75mm/3in | 6.1kg/13.4lb |
| TF1530SL | 381mm/15in | 350Wrms | 4/8Ω | 98dB | 40-3000Hz | 75mm/3in | 5.0kg/11lb |
| TF1525e | 381mm/15in | 300Wrms | 4/8Ω | 97dB | 45-3500Hz | 64mm/2.5in | 5.2kg/11.5lb |
| TF1525 | 381mm/15in | 250Wrms | 8Ω | 98dB | 40-3000Hz | 64mm/2.5in | 5.2kg/11.5lb |
| TF1520 | 381mm/15in | 150Wrms | 8Ω | 96dB | 45-4000Hz | 50mm/2in | 5.0kg/11.0lb |
| TF1230 | 305mm/12in | 350Wrms | 8Ω | 94dB | 45-3000Hz | 75mm/3in | 4.3kg/9.5lb |
| TF1230SL | 305mm/12in | 350Wrms | 4/8Ω | 97dB | 50-4000Hz | 75mm/3in | 4.3kg/9.5lb |
| TF1230S | 305mm/12in | 300Wrms | 8Ω | 96dB | 50-4000Hz | 75mm/3in | 4.3kg/9.5lb |
| TF1225e | 305mm/12in | 300Wrms | 8Ω | 96dB | 50-3000Hz | 64mm/2.5in | 4.4kg/9.7lb |
| TF1225 | 305mm/12in | 250Wrms | 4/8Ω | 97dB | 50-4000Hz | 64mm/2.5in | 4.1kg/9.0lb |
| TF1220 | 305mm/12in | 150Wrms | 8Ω | 97dB | 60-4000Hz | 50mm/2in | 4.0kg/8.8lb |
| TF1218 | 305mm/12in | 100Wrms | 8Ω | 97dB | 60-4500Hz | 45mm/1.75in | 2.7kg/6.0lb |
| TF1020 | 254mm/10in | 150Wrms | 4/8Ω | 97dB | 60-3000Hz | 50mm/2in | 3.7kg/8.2lb |
| TF1018 | 254mm/10in | 100Wrms | 8Ω | 96dB | 70-6000Hz | 45mm/1.75in | 2.4kg/5.3lb |
| TF0818 | 203mm/8in | 100Wrms | 4/8/16Ω | 94dB | 70-6000Hz | 45mm/1.75in | 2.3kg/5.1lb |
| TF0818MR | 203mm/8in | 100Wrms | 8Ω | 99dB | 800-5000Hz | 45mm/1.75in | 1.9kg/4.2lb |
| TF0615 | 152mm/6in | 100Wrms | 8Ω | 94dB | 85-6000Hz | 38mm/1.5in | 1.4kg/3.1lb |
| TF0615MR | 152mm/6in | 50Wrms | 8Ω | 97dB | 500-5000Hz | 38mm/1.5in | 1.4kg/3.1lb |
| TF0510 | 127mm/5in | 30Wrms | 8Ω | 91dB | 130-8000Hz | 25mm/1in | 1.0kg/2.2lb |
| TF0510MR | 127mm/5in | 30Wrms | 8Ω | 91dB | 400-4000Hz | 25mm/1in | 1.2kg/2.6lb |
| TF0410MR | 100mm/4in | 30Wrms | 8Ω | 90dB | 400-4000Hz | 25mm/1in | 1.2kg/2.6lb |
| K12H-200TC | 305mm/12in | 200Wrms | 8Ω | 98dB | 50-10,000Hz | 50mm/2in | 3.9kg/8.6lb |
| K12H-100TC | 305mm/12in | 100Wrms | 8Ω | 97dB | 50-10,000Hz | 44mm/1.75in | 3.8kg/8.4lb |

*AES Standard

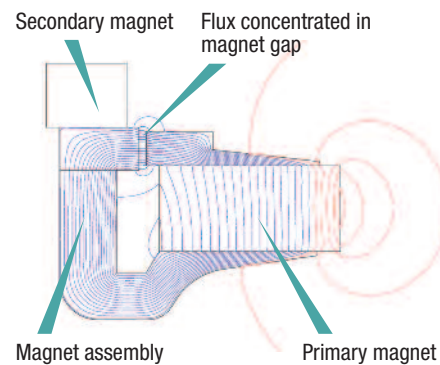
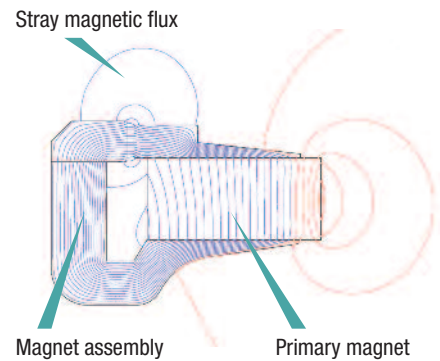
Key Technologies

To achieve high levels of performance and reliability at such competitive price points, Celestion pressed steel chassis drivers are packed with innovative design features. Products such as the TF1530SL employ Celestion's Dual Magnet Motor design, incorporating a secondary magnet within the magnet assembly. This makes the motor more efficient by minimising stray flux: the secondary magnet reflects this flux back into the magnet gap. The effect is to increase total motor force (Bl) without needing to increase overall magnet size and weight.

Sophisticated Finite Element Analysis (FEA) further increases the efficiency of magnet designs through enhanced flux control and the elimination of superfluous magnet mass.

Efficient heat management is inherent in the design of every driver, with performance and reliability further enhanced through the use of Kevlar-impregnated cones, high temperature voice coils wound on polyimide formers and rigid chassis designs for maximum energy transfer.

Dual magnet motor design

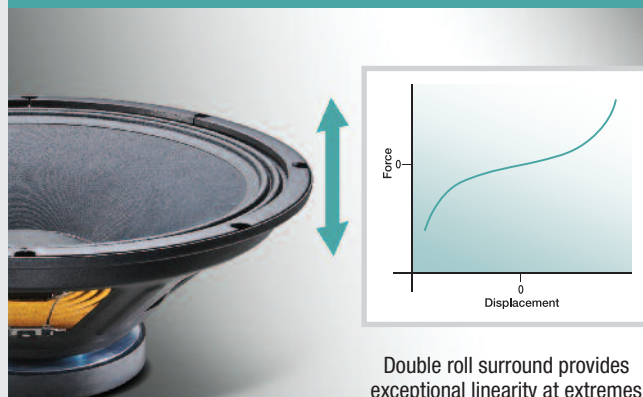


Dynamic heat dispersion



Rear venting improves cooling efficiency

Double roll surround



Double roll surround provides exceptional linearity at extremes of cone excursion

NEW

TF1530P

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 500Wrms |
| Continuous power rating ² | 1000W |
| EIA power rating ³ | 650W |
| Nominal impedance | 4Ω |
| Sensitivity ⁴ | 95dB |
| Frequency range | 35-2500Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 2.3kg/83oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 6.5mm/0.26in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 21mm/0.82in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 36.6Hz |
| Mms | 97.47g/3.44oz |
| Qms | 5.37 |
| Qes | 0.34 |
| Qts | 0.32 |
| Re | 3.08Ω |
| Vas | 179.7lt/6.34ft ³ |
| Bl | 14.25Tm |
| Cms | 0.194mm/N |
| Rms | 4.172kg/s |
| Le (at 1kHz) | 1.06mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Diameter | 385mm/15.16in |
| Overall depth | 160mm/6.33in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.2 x 6.2mm/0.36 x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.56in |
| Unit weight | 6.8kg/15lb |

Packed Dimensions & Weight

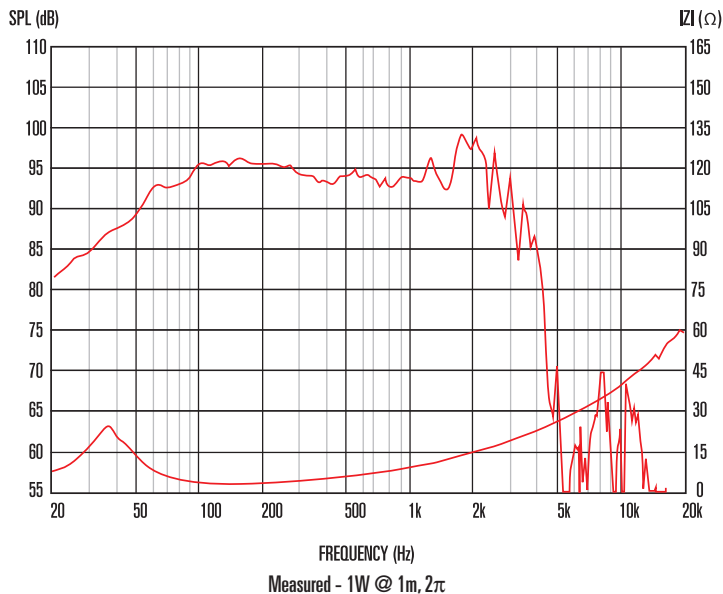
| | |
|--------------------------------|---------------------------|
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 300kg/660lb |



Features

- 15" ferrite magnet, steel chassis LF driver delivering 500Wrms (AES Standard) power handling and 95dB sensitivity
- 3" high temperature copper voice coil wound on polyimide for increased reliability
- FEA optimized magnet assembly delivers highly symmetrical cone movement, leading to exceptionally low harmonic distortion
- Double roll surround for exceptional linearity at extremes of excursion
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Superb price/performance ratio

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TF1530e

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|-----------------------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 400Wrms |
| Continuous power rating ² | 800W |
| EIA power rating ³ | 550W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 40-3000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed Steel |
| Magnet type | Ferrite |
| Magnet weight | 2.44kg/86oz |
| Coil material | Flattened Copper coated Aluminium |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4.7mm/0.19in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 17.3mm/0.68in |

Small Signal Parameters⁶

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 40.9Hz |
| Mms | 86.24g/3.04oz |
| Qms | 4.073 |
| Qes | 0.376 |
| Qts | 0.344 |
| Re | 5.09Ω |
| Vas | 181.72lt/6.41ft ³ |
| Bl | 17.318Tm |
| Cms | 0.176mm/N |
| Rms | 5.433kg/s |
| Le (at 1kHz) | 0.827mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Diameter | 385mm/15.16mm |
| Overall depth | 161mm/6.34in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.2 x 6.2mm/0.36 x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.56in |
| Unit weight | 5.65kg/14.46lb |

Packed Dimensions & Weight

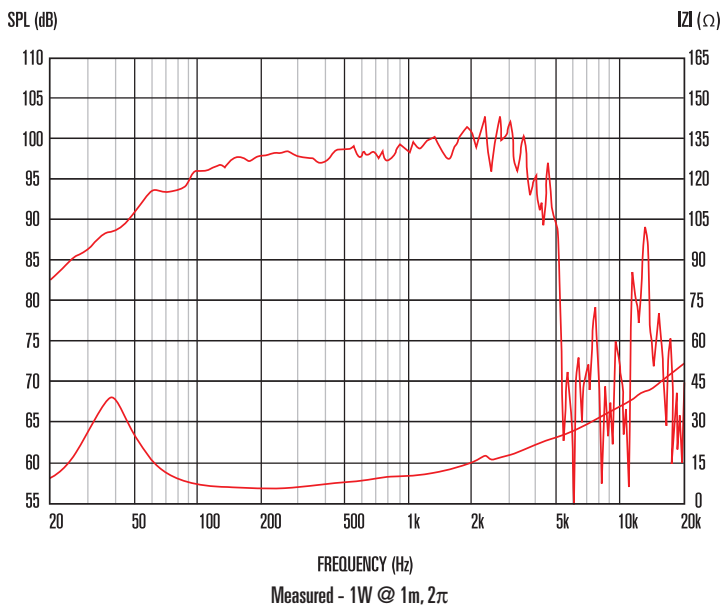
| | |
|--------------------------------|---------------------------|
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 300kg/660lb |



Features

- 15" driver provides extended low frequency range
- 3" edgewound voice coil enables 98dB efficiency and 400Wrms (AES standard) power handling
- Vented magnet assembly for enhanced cooling
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Suitable for use in 2-way and 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF1530

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 400Wrms |
| Continuous power rating ² | 800W |
| EIA power rating ³ | 525W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 99dB |
| Frequency range | 40-3000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 2.44kg/86oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.08in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.33m/12.99in |
| Fs | 41.48Hz |
| Mms | 83.33g/2.94oz |
| Qms | 3.79 |
| Qes | 0.315 |
| Qts | 0.291 |
| Re | 5.81Ω |
| Vas | 183.9lt/6.5ft ³ |
| Bl | 20.01Tm |
| Cms | 0.177mm/N |
| Rms | 5.72kg/s |
| Le (at 1kHz) | 1.08mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 385mm/15.16in |
| Overall depth | 163mm/6.42in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.2mm x 6.2mm/0.36in x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.56in |
| Unit weight | 6.9kg/15.2lb |

Packed Dimensions & Weight

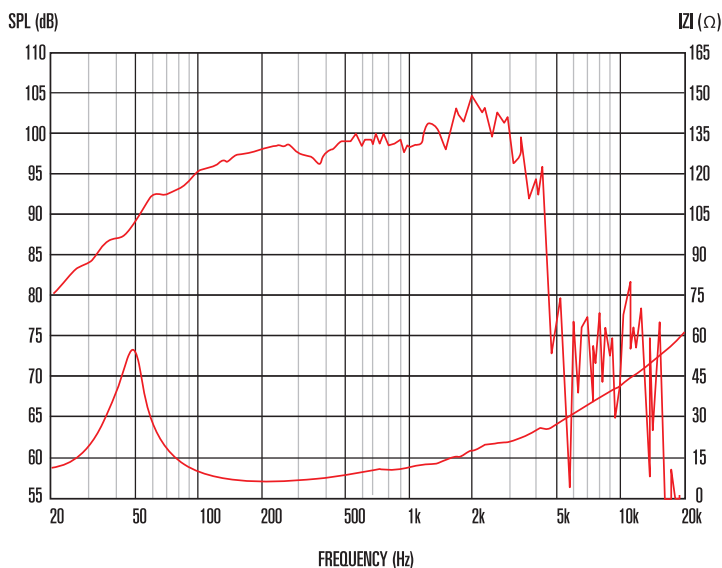
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 410mm x 410mm x 180mm |
| | /16.1in x 16.1in x 7.1in |
| Single pack weight | 8kg/17.6lb |
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 300kg/660lb |



Features

- 15" bass and mid-range driver with efficient magnet assembly that enables 99dB sensitivity and 400Wrms (AES standard) power handling
- 3" high temperature copper voice coil wound on polyimide for increased reliability
- Double roll surround for greater excursion control
- Special consideration is paid to materials and construction to deliver maximum reliability
- Superb price/performance ratio

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request



TF1530SL

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 350Wrms |
| Continuous power rating ² | 700W |
| EIA power rating ³ | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 40-3000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed Steel |
| Magnet type | Ferrite |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4mm/0.16in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁶

| | |
|--------------|------------------------------|
| D | 0.33m/12.99in |
| Fs | 48.8Hz |
| Mms | 93.06g/3.29oz |
| Qms | 3.202 |
| Qes | 0.532 |
| Qts | 0.456 |
| Re | 5.03Ω |
| Vas | 1118.57l/4.19ft ³ |
| Bl | 16.41Tm |
| Cms | 0.115mm/N |
| Rms | 8.902kg/s |
| Le (at 1kHz) | 0.7mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Diameter | 385mm/15.16in |
| Overall depth | 161mm/6.34in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.2 x 6.2mm/0.36 x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.56in |
| Unit weight | 5kg/11lb |

Packed Dimensions & Weight

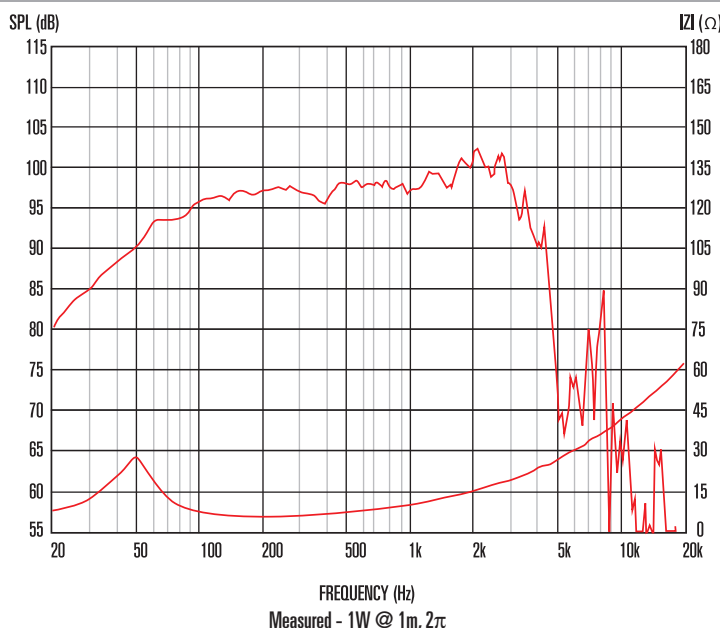
| | |
|--------------------------------|---------------------------|
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 265kg/580lb |



Features

- 15" Bass and mid-range driver providing 98dB sensitivity and 350Wrms (AES standard) power handling
- 3" high temperature copper voice coil wound on polyimide for increased reliability
- Finite Element analysis techniques used to optimise magnet assembly, resulting in lower mass than typical ferrite units
- Reduced inductive rise, leading to greater mid-range sensitivity; beneficial for many 15" driver applications
- Kevlar-loaded cone with sealed surround and damping for reduced distortion.
- Double roll surround provides exceptional linearity at extremes of cone excursion
- For use in 2-way or compact 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF1525e

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| EIA power rating ³ | 450W |
| Nominal impedance | 84 |
| Sensitivity ² | 97dB |
| Frequency range | 45-3500Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.4kg/50oz |
| Coil material | Edgewound copper |
| Former material | Glass fibre |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3.5mm/0.14in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 14.5mm/0.57in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 41.48Hz |
| Mms | 77.83g/2.75oz |
| Qms | 5.287 |
| Qes | 0.443 |
| Qts | 0.4 |
| Re | 6.7Ω |
| Vas | 196.4lt/6.93ft ³ |
| Bl | 17.71Tm |
| Cms | 0.189mm/N |
| Rms | 3.84kg/s |
| Le (at 1kHz) | 1.32mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 385mm/15.16in |
| Overall depth | 163mm/6.42in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.2mm x 6.2mm/0.36in x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.56in |
| Unit weight | 4.8kg/10.6lb |

Packed Dimensions & Weight

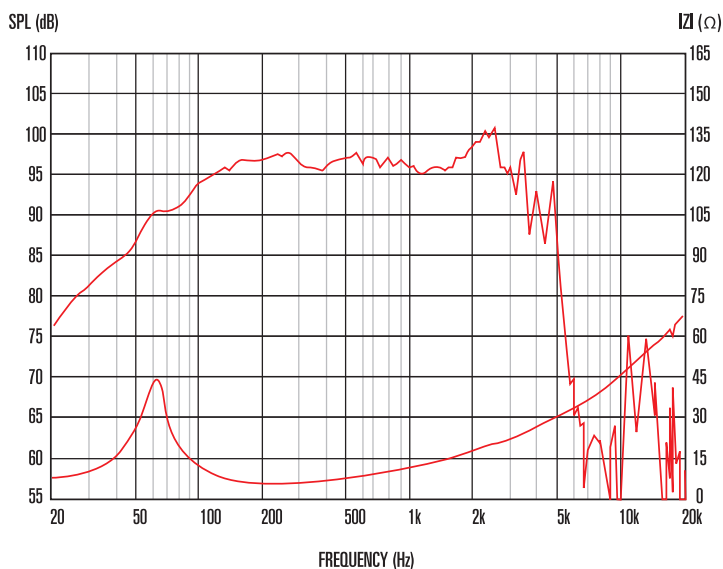
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 410mm x 410mm x 180mm |
| | /16.1in x 16.1in x 7.1in |
| Single pack weight | 5.5kg/12.1lb |
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 248kg/547lb |



Features

- 15" driver provides extended low frequency range
- 2.5" edgewound voice coil enables 97dB efficiency and 300Wrms (AES standard) power handling
- Vented magnet assembly for enhanced cooling
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Ideal for use in 2-way and 3-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request



TF1525

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| EIA power rating ³ | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 40-3000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.2kg/42oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2.5mm/0.1in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 13mm/0.51in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 45.73Hz |
| Mms | 73.7g/2.6oz |
| Qms | 3.839 |
| Qes | 0.602 |
| Qts | 0.52 |
| Re | 5.01Ω |
| Vas | 170.4lt/6.01ft ³ |
| Bl | 13.27Tm |
| Cms | 0.164mm/N |
| Rms | 5.516kg/s |
| Le (at 1kHz) | 0.82mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 385mm/15.16in |
| Overall depth | 153mm/6.02in |
| Cut-out diameter | 351mm/13.82in |
| Mounting slot dimensions | 9.2mm x 6.2mm/0.36in x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 369mm/14.56in |
| Unit weight | 5.2kg/11.5lb |

Packed Dimensions & Weight

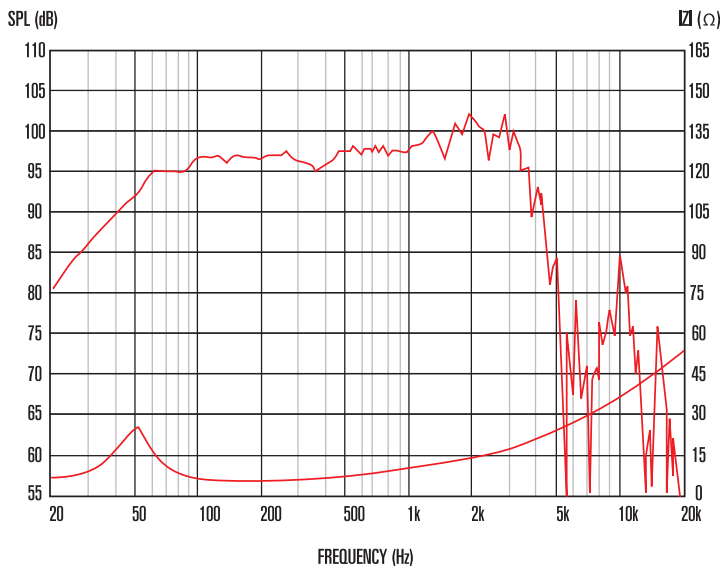
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 410mm x 410mm x 180mm |
| | /16.1in x 16.1in x 7.1in |
| Single pack weight | 5kg/11.0lb |
| Multi pack (45) size W x D x H | 1200mm x 1000mm x 980mm |
| | /47.2in x 39.4in x 38.6in |
| Multi pack (45) weight | 225kg/496lb |



Features

- 15" bass and mid-range driver providing 98dB sensitivity and 250Wrms (AES standard) power handling
- 2.5" high temperature copper voice coil wound on polyimide for increased reliability
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Rigid chassis design for maximum energy transfer
- Vented magnet assembly for enhanced cooling
- Ideal for 2-way and 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF1520

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 381mm/15in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| EIA power rating ³ | 250W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 96dB |
| Frequency range | 45-4000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1kg/35oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3mm/0.12in |
| Gap depth | 8mm/0.24in |
| Voice coil winding width | 14.5mm/0.57in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.33m/12.99in |
| Fs | 49.47Hz |
| Mms | 62.64g/2.2oz |
| Qms | 5.432 |
| Qes | 0.724 |
| Qts | 0.639 |
| Re | 5.97Ω |
| Vas | 171.4lt/6.05ft ³ |
| Bl | 12.67Tm |
| Cms | 0.165mm/N |
| Rms | 3.584kg/s |
| Le (at 1kHz) | 1.41mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 385mm/15.16in |
| Overall depth | 158mm/6.22in |
| Cut-out diameter | 352mm/13.86in |
| Mounting slot dimensions | 9.4mm x 6.3mm/0.37in x 0.25in |
| Number of mounting slots | 8 |
| Mounting PCD range | 370mm/14.56in |
| Unit weight | 5.0kg/11.0lb |

Packed Dimensions & Weight

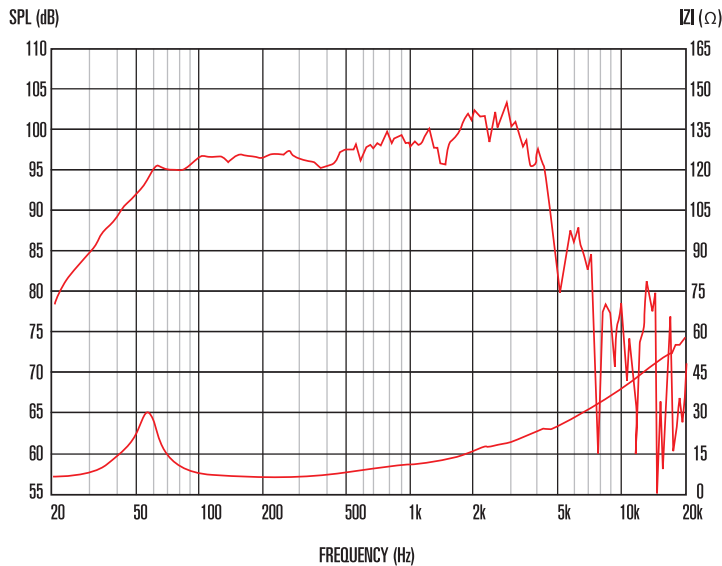
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 410mm x 410mm x 180mm |
| | /16.1in x 16.1in x 7.1in |
| Single pack weight | 5.5kg/12.1 |
| Multi pack (4) size W x D x H | 750mm x 340mm x 440mm |
| | /29.5in x 13.4in x 17.3in |
| Multi pack (4) weight | 22kg/48lb |



Features

- Versatile 15" bass and mid-range driver providing 96dB sensitivity and 150Wrms (AES standard) power handling
- 2" high temperature copper voice coil wound on polyimide for increased reliability
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Rigid chassis design for maximum energy transfer
- Ideal for 2-way and 3-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request



TF1230

Ferrite magnet pressed steel chassis driver

General Specifications:

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 350Wrms |
| Continuous power rating ² | 700W |
| EIA power rating ³ | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 94dB |
| Frequency range | 45-3000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.4kg/48oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| X _{max} ⁵ | 5mm/0.19in |
| Gap depth | 8mm/0.24in |
| Voice coil winding width | 17.5mm/0.69in |

Small Signal Parameters⁶

| | |
|-----------------|-----------------------------|
| D | 0.26m/0.24in |
| F _s | 58.82Hz |
| M _{ms} | 62.84g/2.22oz |
| Q _{ms} | 3.846 |
| Q _{es} | 0.633 |
| Q _{ts} | 0.544 |
| R _e | 5.29Ω |
| V _{as} | 46.84lt/1.65ft ³ |
| Bl | 13.93Tm |
| C _{ms} | 0.117mm/N |
| R _{ms} | 6.038kg/s |
| Le (at 1kHz) | 0.99mH |

Mounting Information

| | |
|--------------------------|---------------|
| Overall diameter | 309mm/12.17in |
| Overall depth | 140mm/5.5in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | ∅ 7.9/0.31 |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 4.3kg/9.46lb |

Packed Dimensions & Weight

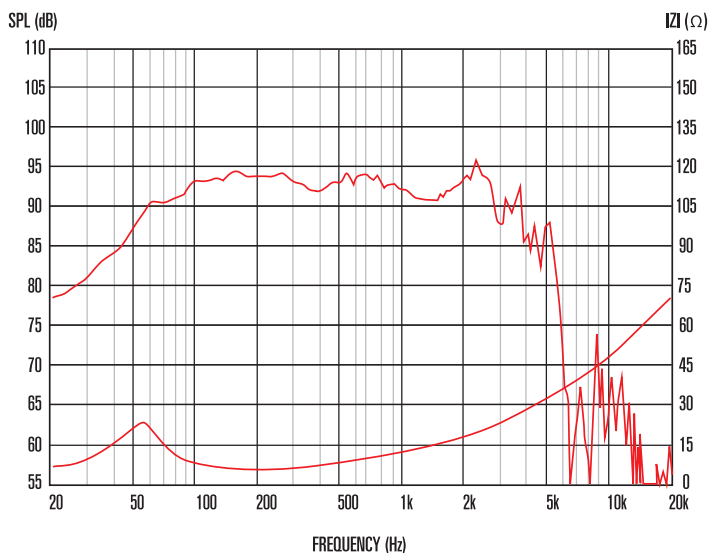
| | |
|--------------------------------|---------------------------|
| Multi pack (60) size W x D x H | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 190kg/419lb |



Features

- 12" Bass driver providing 94dB sensitivity and 350Wrms (AES standard) power handling
- 3" high temperature copper voice coil wound on polyimide for increased reliability
- Kevlar-loaded cone with sealed surround and damping for reduced distortion.
- Double roll surround for greater excursion control
- Vented magnet assembly for enhanced cooling
- For use in 2-way or compact 3-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. X_{max} derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF1230SL

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 350Wrms |
| Continuous power rating ² | 700W |
| EIA power rating ³ | 500W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed Steel |
| Magnet type | Ferrite |
| Magnet weight | 1.7kg/60oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4mm/0.16in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 16mm/0.63in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.26m/10.24in |
| Fs | 59.5Hz |
| Mms | 59.29g/2.09oz |
| Mmd | 52.37g/1.84oz |
| Qms | 3.319 |
| Qes | 0.444 |
| Qts | 0.392 |
| Re | 5.11Ω |
| Vas | 48.18lt/1.7ft ³ |
| Bl | 15.97Tm |
| Cms | 0.12mm/N |
| Rms | 6.67kg/s |
| Le (at 1kHz) | 0.91mH |

Mounting Information

| | |
|--------------------------|---------------|
| Diameter | 309mm/12.17in |
| Overall depth | 137mm/5.43in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting slot PCD | 297mm/11.69in |
| Unit weight | 4.3kg/9.5lb |

Packed Dimensions & Weight

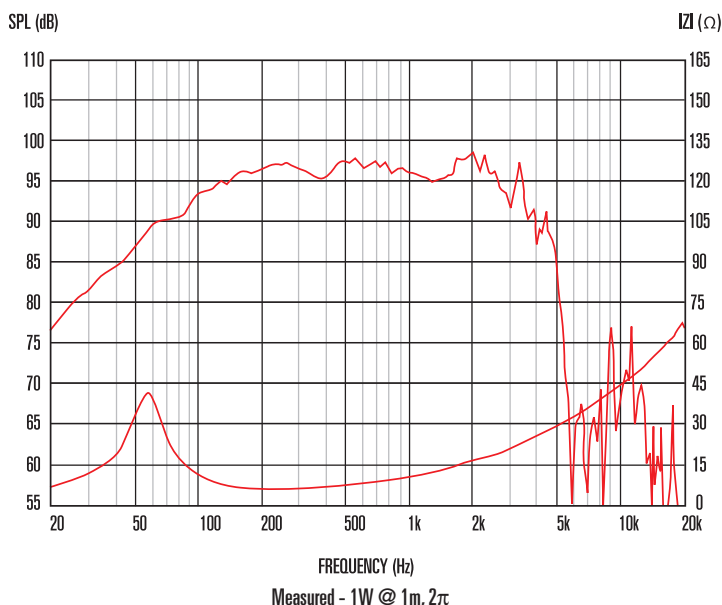
| | |
|--------------------------------|---------------------------|
| Multi pack (60) size W x D x H | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 190kg/419lb |



Features

- 12" Bass and mid-range driver providing 97dB sensitivity and 350Wrms (AES standard) power handling
- 3" high temperature copper voice coil wound on polyimide for increased reliability
- Finite Element analysis techniques used to optimise magnet assembly, resulting in lower mass than typical ferrite units
- Reduced inductive rise, leading to greater mid-range sensitivity; beneficial for many 12" driver applications
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Double roll surround provides exceptional linearity at extremes of cone excursion

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request



NEW

TF1230S

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| EIA power rating ³ | 450W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 96dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 75mm/3in |
| Chassis type | Pressed Steel |
| Magnet type | Ferrite |
| Magnet weight | 1.7kg/60oz |
| Coil material | Edgewound copper clad aluminium |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 4.5mm/0.18in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 17mm/0.67in |

Small Signal Parameters⁶

| | |
|--------------|-------------------------------------------|
| D | 0.26m/10.24in |
| Fs | 58.5Hz |
| Mms | 49.92g/1.75oz |
| Qms | 3.154 |
| Qes | 0.492 |
| Qts | 0.426 |
| Re | 5.81Ω |
| Vas | 59.15ft ³ /2.09ft ³ |
| Bl | 14.71Tm |
| Cms | 0.148mm/N |
| Rms | 5.82kg/s |
| Le (at 1kHz) | 1.05mH |

Mounting Information

| | |
|--------------------------|--------------------------|
| Diameter | 317.5mm/12.5in |
| Overall depth | 137mm/5.43in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | 13 x 6.6mm/0.51 x 0.26in |
| Number of mounting slots | 8 |
| Mounting slot PCD | 299mm/11.77in |
| Unit weight | 4.3kg/9.5lb |

Packed Dimensions & Weight

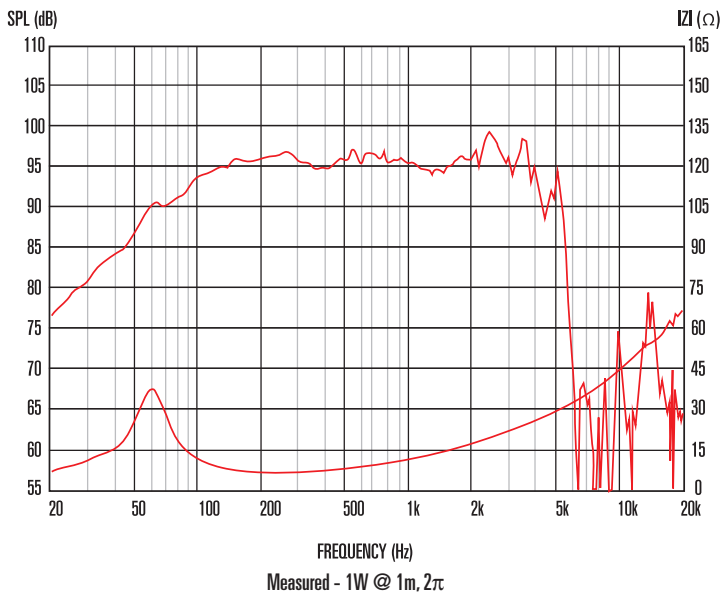
| | |
|----------------------------|-----------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13in x 13in x 5.9in |
| Single pack weight | 5.5kg/12lb |



Features

- 300Wrms (AES standard) power handling and 97dB sensitivity
- Tough 12" ferrite bass/mid loudspeaker with Kevlar loaded cone
- Optimised magnet assembly delivers impressive power to weight ratio
- 3" high temperature edgewound copper clad aluminium voice coil wound on glass fibre former for enhanced reliability
- Double roll surround provides exceptional linearity at extremes of cone excursion
- Robust steel chassis for maximum energy transfer
- Ideal for two-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

AXI | HF Neo | HF Ferrite | Horns | Coaxial | LF Cast Chassis Neo | LF Cast Chassis Ferrite | LF Pressed Chassis Neo | LF Pressed Chassis Ferrite | Compact Array

TF1225e

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 300Wrms |
| Continuous power rating ² | 600W |
| EIA power rating ³ | 450W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 96dB |
| Frequency range | 50-3000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.4kg/50oz |
| Coil material | Edgewound copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3.5mm/0.14in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 14.5mm/0.57in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 54.74Hz |
| Mms | .55g/1.94oz |
| Qms | 3.889 |
| Qes | 0.374 |
| Qts | 0.341 |
| Re | 5.1Ω |
| Vas | 61.65lt/2.18ft ³ |
| Bl | 16.05Tm |
| Cms | 0.154mm/N |
| Rms | 4.864kg/s |
| Le (at 1kHz) | 1.1mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 309mm/12.17in |
| Overall depth | 139mm/5.47in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 4.4kg/9.7lb |

Packed Dimensions & Weight

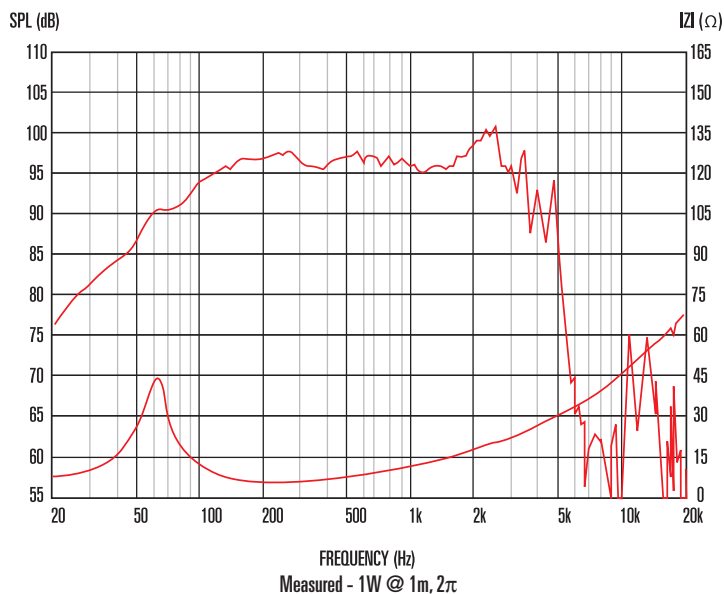
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 5kg/11lb |
| Multi pack (60) size W x D x H | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 290kg/638lb |



Features

- 12" Bass driver with extended low frequency response
- 2.5" edgewound voice coil provides 96dB sensitivity and 300Wrms (AES standard) power handling
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Double roll surround for greater excursion control
- Suitable for use in 2-way and compact 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TF1225

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 250Wrms |
| Continuous power rating ² | 500W |
| EIA power rating ³ | 400W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 64mm/2.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.2kg/42oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2.5mm/0.1in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 13mm/0.51in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.26m/10.24in |
| Fs | 52.27Hz |
| Mms | 52.42g/1.85oz |
| Qms | 4.81 |
| Qes | 0.437 |
| Qts | 0.401 |
| Re | 4.96Ω |
| Vas | 70.86lt/2.5ft ³ |
| Bl | 13.99Tm |
| Cms | 0.177mm/N |
| Rms | 3.573kg/s |
| Le (at 1kHz) | 0.84mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 309mm/12.17in |
| Overall depth | 130mm/5.12in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 4.1kg/9.0lb |

Packed Dimensions & Weight

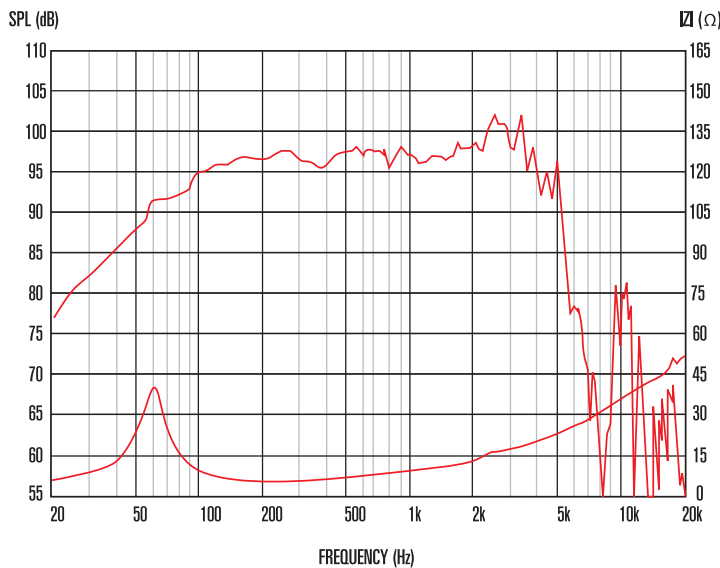
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 5kg/11lb |
| Multi pack (60) size W x D x H | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 290kg/638lb |



Features

- 12" Bass and mid-range driver providing 97dB sensitivity and 250Wrms (AES standard) power handling
- 2.5" high temperature copper voice coil wound on polyimide for increased reliability
- Optimised ferrite magnet design reduces weight
- Double roll surround for greater excursion control
- For use in 2-way or compact 3-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π; anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF1220

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| EIA power rating ³ | 250W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 60-4000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.2kg/42oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.08in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 51.25Hz |
| Mms | 342.5g/1.5oz |
| Qms | 3.249 |
| Qes | 0.391 |
| Qts | 0.349 |
| Re | 5.44Ω |
| Vas | 90.88lt/3.21ft ³ |
| Bl | 13.79Tm |
| Cms | 0.227mm/N |
| Rms | 4.212kg/s |
| Le (at 1kHz) | 0.735mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 309mm/12.17in |
| Overall depth | 131mm/5.16in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 4kg/8.8lb |

Packed Dimensions & Weight

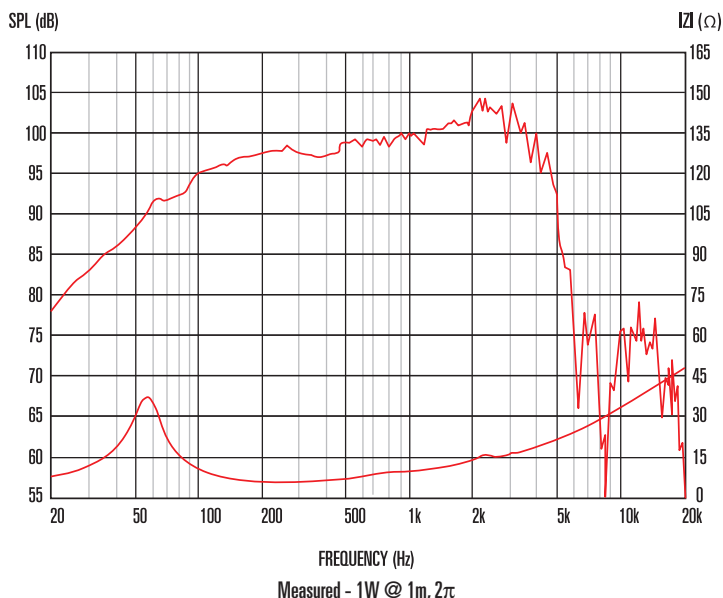
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 5kg/11lb |
| Multi pack (60) size W x D x H | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 265kg/580lb |



Features

- 12" Bass/mid driver providing 97dB sensitivity and 150Wrms (AES standard)
- 2" high temperature copper voice coil wound on polyimide for increased power handling
- Rigid chassis design for maximum energy transfer
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Excellent performance at cost-effective price point
- Ideal for use in compact 2-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TF1218

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter (mm/in) | 305mm/12in |
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| EIA power rating ³ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 60-4500Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.88kg/31oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.08in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 10mm/0.39in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 53.46Hz |
| Mms | 40.66g/1.44oz |
| Qms | 4.527 |
| Qes | 0.585 |
| Qts | 0.518 |
| Re | 5.67Ω |
| Vas | 37.14lt/1.31ft ³ |
| Bl | 11.5Tm |
| Cms | 0.218mm/N |
| Rms | 3.017kg/s |
| Le (at 1kHz) | 0.57mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 309mm/12.17in |
| Overall depth | 125mm/4.92in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 2.7kg/6.0lb |

Packed Dimensions & Weight

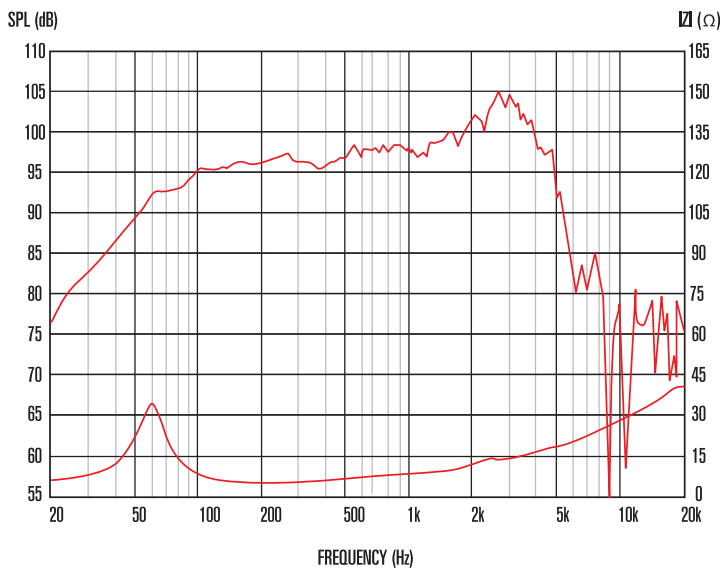
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 4kg/8.8lb |
| Multi pack (60) size W x D x H | 1080mm x 980mm x 880mm |
| | /42.5in x 38.6in x 34.6in |
| Multi pack (60) weight | 185kg/405lb |



Features

- 12" Bass and mid-range driver offering a superior price/performance ratio
- Provides 97dB sensitivity and 100Wrms (AES standard) power handling
- 1.75" High temperature copper voice coil wound on polyimide for increased reliability
- Kevlar-loaded cone with sealed surround and damping for reduced distortion
- Suitable for use in compact 2-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF1020

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 150Wrms |
| Continuous power rating ² | 300W |
| EIA power rating ³ | 250W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 60-3000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.2kg/42oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.08in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁶

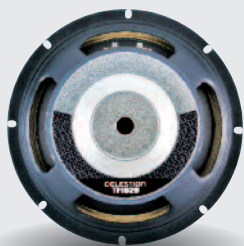
| | |
|--------------|-----------------------------|
| D | 0.21m/8.27in |
| Fs | 56.2Hz |
| Mms | 31.47g/1.11oz |
| Qms | 2.63 |
| Qes | 0.327 |
| Qts | 0.291 |
| Re | 5.73Ω |
| Vas | 42.42lt/1.53ft ³ |
| Bl | 13.96Tm |
| Cms | 0.255mm/N |
| Rms | 4.226kg/s |
| Le (at 1kHz) | 0.59mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Overall diameter | 256mm/10.08in |
| Overall depth | 110mm/4.33in |
| Cut-out diameter | 229mm/9.02in |
| Mounting slot dimensions | 8mm x 6mm/0.31in x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 242-246mm/9.53-9.65in |
| Unit weight | 3.7kg/8.2lb |

Packed Dimensions & Weight

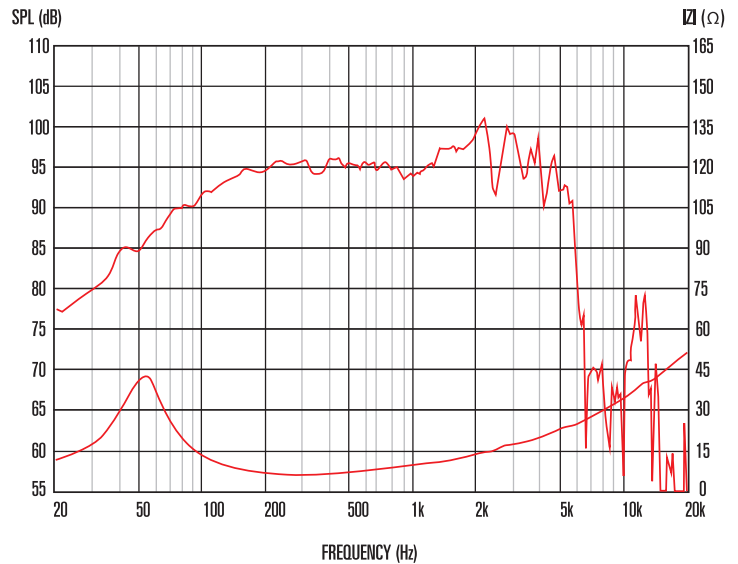
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 280mm x 280mm x 120mm |
| | /11.0in x 11.0in x 4.7in |
| Single pack weight | 4kg/8.8lb |
| Multi pack (96) size W x D x H | 1080mm x 880mm x 840mm |
| | /42.5in x 34.6in x 33.1in |
| Multi pack (96) weight | 390kg/860lb |



Features

- 10" bass and mid-range driver provides 97dB sensitivity and 150Wrms (AES standard) power handling
- 2" High temperature copper voice coil wound on polyimide for increased reliability
- Ideally suited to compact enclosures and high pass systems
- Rigid chassis design for maximum energy transfer
- Vented magnet assembly for enhanced cooling
- Kevlar-loaded cone with sealed surround and damping for reduced distortion

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TF1018

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 254mm/10in |
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| EIA power rating ³ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 96dB |
| Frequency range | 70-6000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.88kg/31oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.08in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 10mm/0.39in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.21m/8.27in |
| Fs | 73.18Hz |
| Mms | 27.18g/0.96oz |
| Qms | 3.437 |
| Qes | 0.498 |
| Qts | 0.435 |
| Re | 5.59Ω |
| Vas | 28.96lt/1.02ft ³ |
| Bl | 11.97Tm |
| Cms | 0.17mm/N |
| Rms | 3.72kg/s |
| Le (at 1kHz) | 0.45mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Overall diameter | 256mm/10.08in |
| Overall depth | 102mm/4.02in |
| Cut-out diameter | 229mm/9.02in |
| Mounting slot dimensions | 8mm x 6mm/0.31in x 0.24in |
| Number of mounting slots | 8 |
| Mounting PCD range | 242-246mm/9.53-9.65in |
| Unit weight | 2.4kg/5.3lb |

Packed Dimensions & Weight

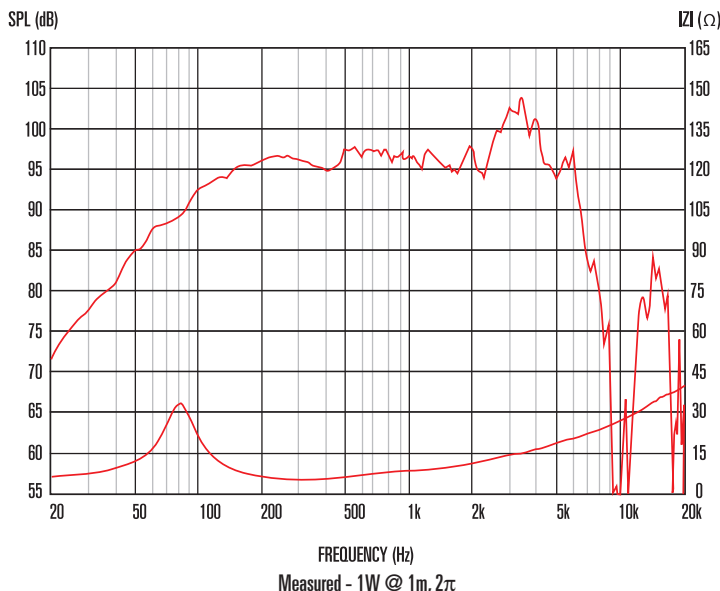
| | |
|--------------------------------|---------------------------|
| Single pack size W x D x H | 280mm x 280mm x 120mm |
| | /11.0in x 11.0in x 4.7in |
| Single pack weight | 3kg/6.6lb |
| Multi pack (96) size W x D x H | 1080mm x 880mm x 840mm |
| | /42.5in x 34.6in x 33.1in |
| Multi pack (96) weight | 265kg/585lb |



Features

- 10" driver providing 96dB sensitivity and 100Wrms (AES standard) power handling
- 1.75" high temperature copper voice coil wound on polyimide for increased reliability
- Superior bass and mid-range performance
- Rigid chassis design for maximum energy transfer
- Excellent price/performance ratio

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard.
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

TF0818

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 203mm/8in |
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| EIA power rating ³ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 94dB |
| Frequency range | 70-6000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.88kg/31oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 3.5mm/0.14in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 13mm/0.51in |

Small Signal Parameters⁶

| | |
|--------------|-----------------------------|
| D | 0.17m/6.69in |
| Fs | 93.2Hz |
| Mms | 20.65g/0.73oz |
| Qms | 5.429 |
| Qes | 0.505 |
| Qts | 0.462 |
| Re | 6.61Ω |
| Vas | 10.32lt/0.36ft ³ |
| Bl | 12.58Tm |
| Cms | 0.141mm/N |
| Rms | 2.227kg/s |
| Le (at 1kHz) | 0.75mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 208mm/8.19in |
| Overall depth | 99mm/3.54in |
| Cut-out diameter | 183mm/7.20in |
| Mounting slot dimensions | 9.5mm x 5.5mm/0.37in x 0.22in |
| Number of mounting slots | 4 |
| Mounting PCD range | 195-199mm/7.68-7.83in |
| Unit weight | 2.3kg/5.1lb |

Packed Dimensions & Weight

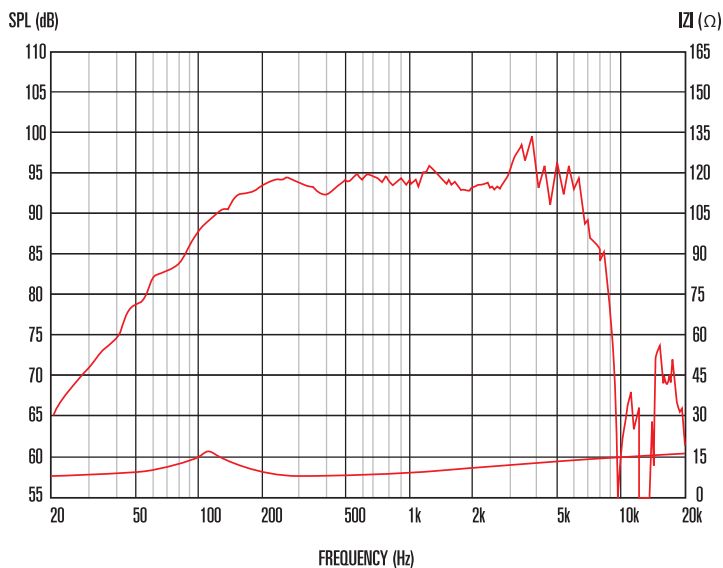
| | |
|---------------------------------|--------------------------|
| Single pack size W x D x H | 230mm x 230mm x 110mm |
| | 9.1in x 9.1in x 4.3in |
| Single pack weight | 3kg/6.6lb |
| Multi pack (140) size W x D x H | 1070mm x 850mm x 860mm |
| | 42.1in x 33.5in x 33.9in |
| Multi pack (140) weight | 345kg/760lb |



Features

- 8" driver providing 94dB sensitivity and 100Wrms (AES standard) power handling
- 1.75" high temperature copper voice coil wound on polyimide former for increased reliability
- Achieves optimal performance in compact enclosures
- Exceptional performance through bass and mid-range
- Ideal for 2-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω and 16Ω, data available on request



TF0818MR

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 203mm/8in |
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| EIA power rating ³ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 99dB |
| Frequency range | 800-5000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.57kg/20oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Treated paper |
| Suspension | Single |
| Xmax | n/a |
| Gap depth | n/a |
| Voice coil winding width | n/a |

Small Signal Parameters

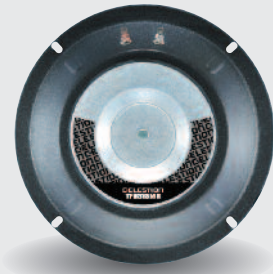
| | |
|--------------|---------|
| D | n/a |
| Fs | 453Hz |
| Mms | n/a |
| Qms | n/a |
| Qes | n/a |
| Qts | n/a |
| Re | 6.63Ω |
| Vas | n/a |
| Bl | n/a |
| Cms | n/a |
| Rms | n/a |
| Le (at 1kHz) | 0.312mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 208mm/8.19in |
| Overall depth | 85mm/3.35in |
| Cut-out diameter | 183mm/7.20in |
| Mounting slot dimensions | 9.5mm x 5.5mm/0.37in x 0.22in |
| Number of mounting slots | 4 |
| Mounting PCD range | 195-199mm/7.68-7.83in |
| Unit weight | 1.9kg/4.2lb |

Packed Dimensions & Weight

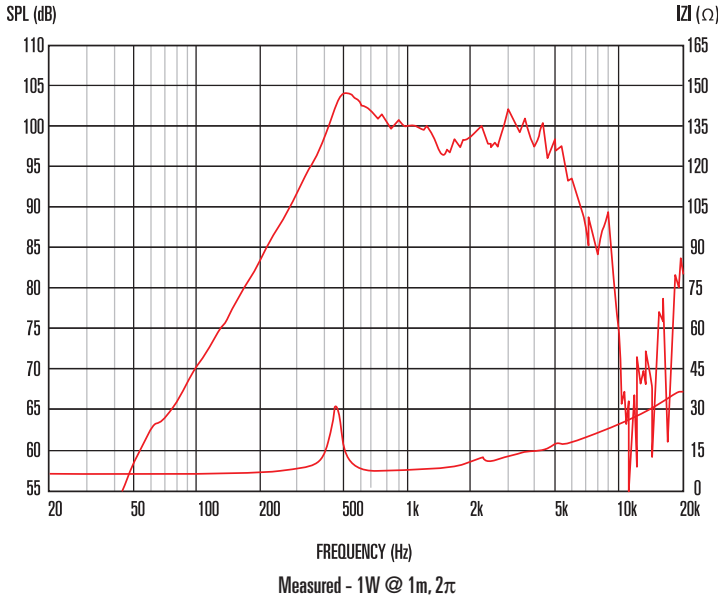
| | |
|---------------------------------|---------------------------|
| Single pack size W x D x H | 230mm x 230mm x 1100mm |
| | /9.1in x 9.1in x 4.3in |
| Single pack weight | 3kg/6.6lb |
| Multi pack (140) size W x D x H | 1070mm x 850mm x 860mm |
| | /42.1in x 33.5in x 33.9in |
| Multi pack (140) weight | 290kg/640lb |



Features

- 8" mid-range loudspeaker provides 99dB sensitivity and 100Wrms (AES standard) power handling
- 1.75" high temperature copper voice coil wound on polyimide former for increased reliability
- Designed for use in large 3-way systems
- Closed back chassis simplifies cabinet manufacture, eliminating need for separate mid-range enclosure

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.

TF0615

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 152mm/6in |
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| EIA power rating ³ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 94dB |
| Frequency range | 85-6000Hz |
| Voice coil diameter | 38mm/1.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.48kg/17oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth sealed |
| Suspension | Single |
| Xmax ⁵ | 2.5mm/0.1in |
| Gap depth | 6mm/0.24in |
| Voice coil winding width | 6.5mm/0.26in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.14m/5.51in |
| Fs | 107.2Hz |
| Mms | 11.397g/0.402oz |
| Qms | 5.83 |
| Qes | 0.683 |
| Qts | 0.611 |
| Re | 7.25Ω |
| Vas | 6.49lt/0.23ft ³ |
| Bl | 9.03Tm |
| Cms | 0.193mm/N |
| Rms | 1.317kg/s |
| Le (at 1kHz) | 0.5mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 178mm/7.01in |
| Overall depth | 74mm/2.91in |
| Cut-out diameter | 147mm/5.79in |
| Mounting slot dimensions | ∅ 4.3mm/0.17in |
| Number of mounting slots | 4 |
| Mounting PCD range | 168.5mm/6.63in |
| Unit weight | 1.4kg/3.1lb |

Packed Dimensions & Weight

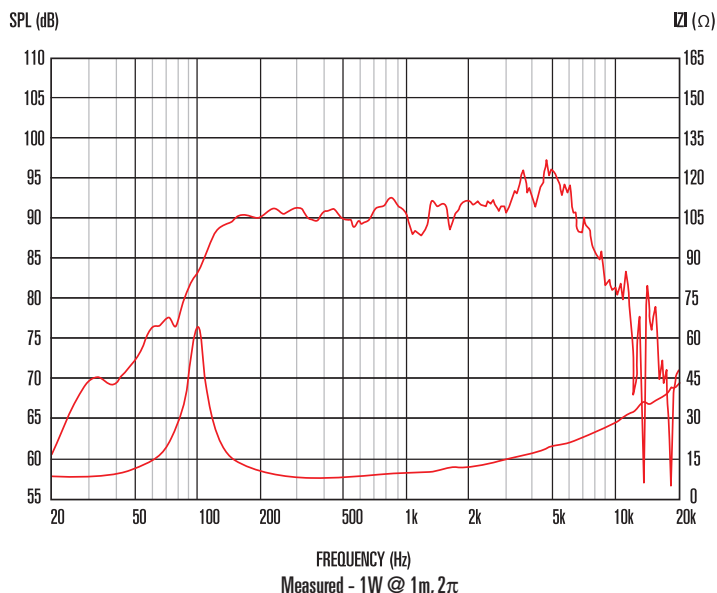
| | |
|----------------------------|-----------------------|
| Single pack size W x D x H | 190mm x 200mm x 90mm |
| | 7.5in x 7.9in x 3.5in |
| Single pack weight | 2kg/4.4lb |



Features

- 6" mid-range driver providing 94dB sensitivity and 100Wrms (AES standard) power handling
- 1.5" high temperature copper voice coil wound on polyimide former for increased reliability
- Rigid chassis design for maximum energy transfer
- Vented magnet assembly for enhanced cooling
- Achieves optimal performance in compact enclosures
- Ideal for 2-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TF0615MR

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 152mm/6in |
| Power rating ¹ | 50Wrms |
| Continuous power rating ² | 100W |
| EIA power rating ³ | 75W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 500-5000Hz |
| Voice coil diameter | 38mm/1.5in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.48kg/17oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Treated paper |
| Suspension | Single |
| Xmax | n/a |
| Gap depth | n/a |
| Voice coil winding width | n/a |

Small Signal Parameters

| | |
|--------------|---------|
| D | n/a |
| Fs | 553Hz |
| Mms | n/a |
| Qms | n/a |
| Qes | n/a |
| Qts | n/a |
| Re | 5.53Ω |
| Vas | n/a |
| Bl | n/a |
| Cms | n/a |
| Rms | n/a |
| Le (at 1kHz) | 0.294mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 178mm/7.01in |
| Overall depth | 74mm/2.91in |
| Cut-out diameter | 147mm/5.79in |
| Mounting slot dimensions | Ø 4.3mm/0.17in |
| Number of mounting slots | 4 |
| Mounting PCD range | 168.5mm/6.63in |
| Unit weight | 1.4kg/3.1lb |

Packed Dimensions & Weight

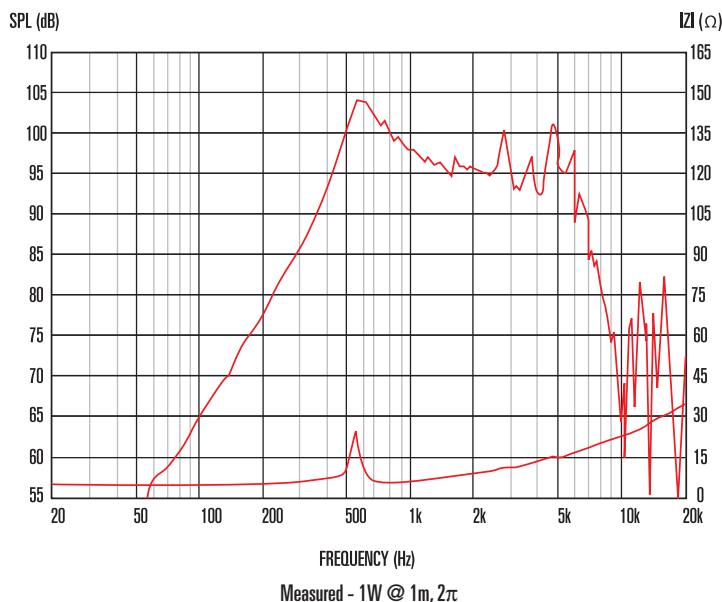
| | |
|---------------------------------|--------------------------|
| Single pack size W x D x H | 190mm x 200mm x 90mm |
| | 7.5in x 7.9in x 3.5in |
| Single pack weight | 2kg/4.4lb |
| Multi pack (140) size W x D x H | 1070mm x 850mm x 860mm |
| | 42.1in x 33.5in x 33.9in |
| Multi pack (140) weight | 220kg/485lb |



Features

- 6" mid-range driver providing 97dB sensitivity and 50Wrms (AES standard) power handling
- 1.5" high temperature copper voice coil wound on polyimide former for increased reliability
- Very compact model suitable for use in 3-way systems
- Optimised to deliver detailed reproduction of mid-range frequencies
- Closed back chassis simplifies cabinet manufacture, eliminating need for separate mid-range enclosure

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.

TF0510

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 127mm/5in |
| Power rating ¹ | 30Wrms |
| Continuous power rating ² | 60W |
| EIA power rating ³ | 50W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 91dB |
| Frequency range | 130-8000Hz |
| Voice coil diameter | 25mm/1in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.37kg/13oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 1.1mm/0.04in |
| Gap depth | 5mm/0.20in |
| Voice coil winding width | 7.3mm/0.29in |

Small Signal Parameters⁶

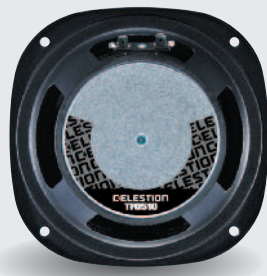
| | |
|--------------|----------------------------|
| D | 0.10m/3.94in |
| Fs | 135.7Hz |
| Mms | 6.592g/0.23oz |
| Qms | 1.969 |
| Qes | 0.848 |
| Qts | 0.593 |
| Re | 6.41Ω |
| Vas | 1.83lt/0.06ft ³ |
| Bl | 6.52Tm |
| Cms | 0.209mm/N |
| Rms | 2.851kg/s |
| Le (at 1kHz) | 0.38mH |

Mounting Information

| | |
|--------------------------|---------------------------|
| Overall diameter | 136 x 151mm/5.35 x 5.94in |
| Overall depth | 68mm/2.68in |
| Cut-out diameter | 117mm/4.61in |
| Mounting slot dimensions | Ø 4.5mm/0.18in |
| Number of mounting slots | 4 |
| Mounting PCD range | 140mm/5.51in |
| Unit weight | 1.0kg/2.2lb |

Packed Dimensions & Weight

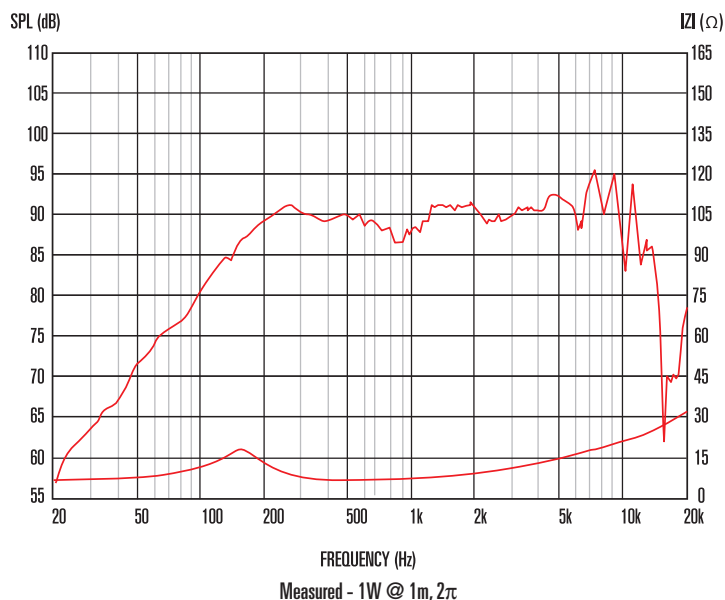
| | |
|--------------------------------|--------------------------|
| Single pack size W x D x H | 170mm x 180mm x 70mm |
| | /6.7in x 7.1in x 2.8in |
| Single pack weight | 1.5kg/3.3lb |
| Multi pack (12) size W x D x H | 320mm x 550mm x 190mm |
| | /12.6in x 21.7in x 7.5in |
| Multi pack (12) weight | 15kg/33lb |



Features

- Multi-purpose 5" drive unit delivering clear bass and mid frequencies
- Provides 91dB sensitivity and 30Wrms (AES standard) power handling
- 1" high temperature copper voice coil wound on polyimide former for increased reliability
- Impressive extended frequency range
- Ideal for use in multiple speaker systems: as LF driver in 2-way systems, as MF driver in 3-way systems

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.



TF0510MR

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 127mm/5in |
| Power rating ¹ | 30Wrms |
| Continuous power rating ² | 60W |
| EIA power rating ³ | 50W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 93dB |
| Frequency range | 400-8000Hz |
| Voice coil diameter | 25mm/1in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.37kg/13oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Treated paper |
| Suspension | Single |
| Xmax | n/a |
| Gap depth | n/a |
| Voice coil winding width | n/a |

Small Signal Parameters

| | |
|--------------|-------|
| D | n/a |
| Fs | 482Hz |
| Mms | n/a |
| Qms | n/a |
| Qes | n/a |
| Qts | n/a |
| Re | 7.87Ω |
| Vas | n/a |
| Bl | n/a |
| Cms | n/a |
| Rms | n/a |
| Le (at 1kHz) | 0.2mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 136mm x 151mm/5.35in x 5.94in |
| Overall depth | 68mm/2.68in |
| Cut-out diameter | 117mm/4.61in |
| Mounting slot dimensions | Ø 4.5mm/0.18in |
| Number of mounting slots | 4 |
| Mounting PCD range | 140mm/5.5in |
| Unit weight | 1.2kg/2.6lb |

Packed Dimensions & Weight

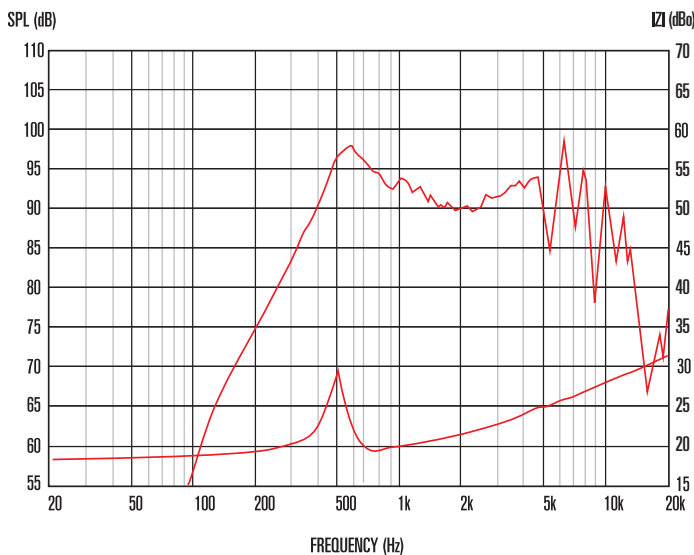
| | |
|--------------------------------|--------------------------|
| Multi pack (12) size W x D x H | 320mm x 550mm x 190mm |
| | /12.6in x 21.7in x 7.5in |
| Multi pack (12) weight | 17kg/37.5lb |



Features

- 5" mid-range driver providing 93dB sensitivity and 30Wrms (AES standard) power handling
- 1" high temperature copper voice coil wound on polyimide former for increased reliability
- Very compact model suitable for use in 3-way systems
- Optimised to deliver detailed reproduction of mid-range frequencies
- Closed back chassis simplifies cabinet manufacture, eliminating need for separate mid-range enclosure

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.

TF0410MR

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 100mm/4in |
| Power rating ¹ | 30Wrms |
| Continuous power rating ² | 60W |
| EIA power rating ³ | 50W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 90dB |
| Frequency range | 400-10,000Hz |
| Voice coil diameter | 25mm/1in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 0.37kg/13oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Treated paper |
| Suspension | Single |
| Xmax | n/a |
| Gap depth | n/a |
| Voice coil winding width | n/a |

Small Signal Parameters

| | |
|--------------|---------|
| D | n/a |
| Fs | 461Hz |
| Mms | n/a |
| Qms | n/a |
| Qes | n/a |
| Qts | n/a |
| Re | 5.38Ω |
| Vas | n/a |
| Bl | n/a |
| Cms | n/a |
| Rms | n/a |
| Le (at 1kHz) | 0.073mH |

Mounting Information

| | |
|--------------------------|-------------------------------|
| Overall diameter | 120mm x 108.5mm/4.7in x 4.3in |
| Overall depth | 60mm/2.4in |
| Cut-out diameter | 95mm/3.7in |
| Mounting slot dimensions | ∅ 4.3mm/0.17in |
| Number of mounting slots | 4 |
| Mounting PCD range | 109mm/4.3in |
| Unit weight | 1.2kg/2.6lb |

Packed Dimensions & Weight

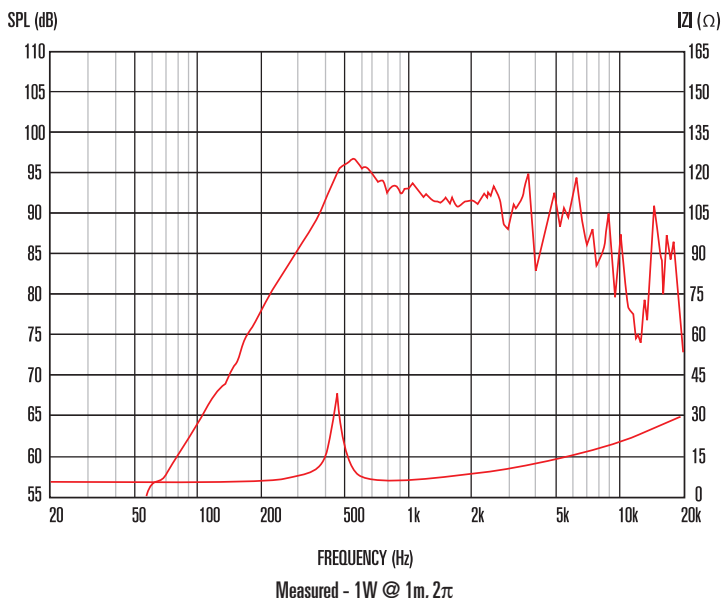
| | |
|--------------------------------|-------------------------|
| Multi pack (12) size W x D x H | 425mm x 280mm x 165mm |
| | 16.7in x 11.0in x 6.5in |
| Multi pack (12) weight | 20kg/44lb |



Features

- 4" mid-range driver providing 90dB sensitivity and 30Wrms (AES standard) power handling
- 1" high temperature copper voice coil wound on polyimide former for increased reliability
- Very compact model suitable for use in 3-way systems
- Optimised to deliver detailed reproduction of mid-range frequencies
- Closed back chassis simplifies cabinet manufacture, eliminating need for separate mid-range enclosure

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.



K12H-200TC

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 200Wrms |
| Continuous power rating ² | 400W |
| EIA power rating ³ | 250W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 98dB |
| Frequency range | 50-10,000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.41kg/50oz |
| Coil material | Round copper |
| Former material | Polyimide |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 2mm/0.08in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 12mm/0.47in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.26m/0.24in |
| Fs | 52.9Hz |
| Mms | 45.895g/1.62oz |
| Qms | 4.915 |
| Qes | 0.477 |
| Qts | 0.435 |
| Re | 5.63Ω |
| Vas | 78.82lt/2.78t ³ |
| Bl | 13.41Tm |
| Cms | 0.198mm/N |
| Rms | 3.101 kg/s |
| Le (at 1kHz) | 0.575 mH |

Mounting Information

| | |
|--------------------------|-----------------|
| Overall diameter | 309mm/12.2in |
| Overall depth | 130.25mm/5.14in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø 7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 3.9kg/8.6lb |

Packed Dimensions & Weight

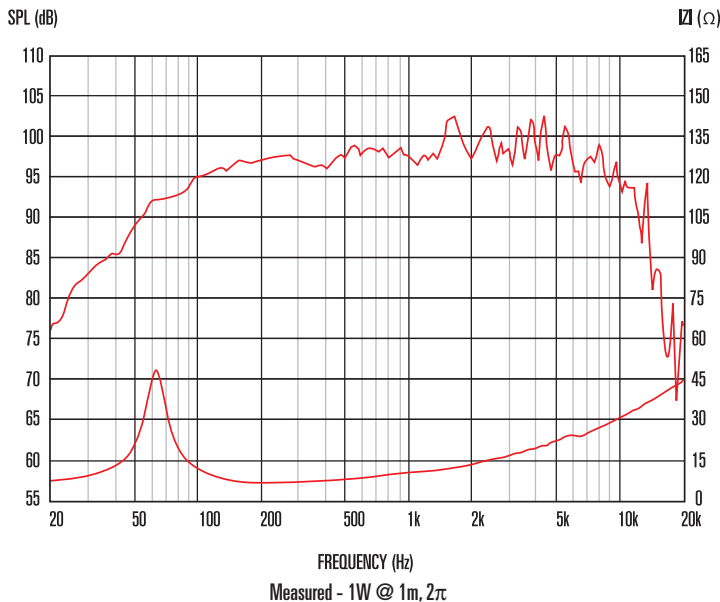
| | |
|----------------------------|--------------------------|
| Single pack size W x D x H | 333mm x 322mm x 145mm |
| | /13.1in x 12.7in x 5.7in |
| Single pack weight | 5.0kg/11lb |



Features

- 12" twin cone drive unit with extended high frequency response
- 2" high temperature copper voice coil for increased reliability and 200Wrms (AES standard) power handling
- Optimised cone neck/voice coil assembly for increased strength, minimising high frequency distortion and improving sound quality
- Secondary cone terminated by pressure formed cloth dust cap for enhanced mid-band clarity
- High efficiency magnet structure design delivers improved sensitivity
- Double roll surround for greater excursion control and smooth frequency response

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

K12H-100TC

Ferrite magnet pressed steel chassis driver

General Specifications

| | |
|--------------------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 100Wrms |
| Continuous power rating ² | 200W |
| EIA power rating ³ | 150W |
| Nominal impedance | 8Ω |
| Sensitivity ⁴ | 97dB |
| Frequency range | 50-10,000Hz |
| Voice coil diameter | 45mm/1.75in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.41kg/50oz |
| Coil material | Round copper |
| Former material | Kapton |
| Cone material | Kevlar loaded paper |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax ⁵ | 1mm/0.04in |
| Gap depth | 8mm/0.31in |
| Voice coil winding width | 10mm/0.39in |

Small Signal Parameters⁶

| | |
|--------------|----------------------------|
| D | 0.26m/10.24in |
| Fs | 67.5Hz |
| Mms | 43.669g/1.54oz |
| Qms | 5.381 |
| Qes | 0.581 |
| Qts | 0.525 |
| Re | 5.43Ω |
| Vas | 50.7lt/1.79ft ³ |
| Bl | 13.16Tm |
| Cms | 0.127mm/N |
| Rms | 3.443kg/s |
| Le (at 1kHz) | 0.625mH |

Mounting Information

| | |
|--------------------------|----------------|
| Overall diameter | 309mm/12.17in |
| Overall depth | 129.7mm/5.11in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | Ø7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 3.8kg/8.4lb |

Packed Dimensions & Weight

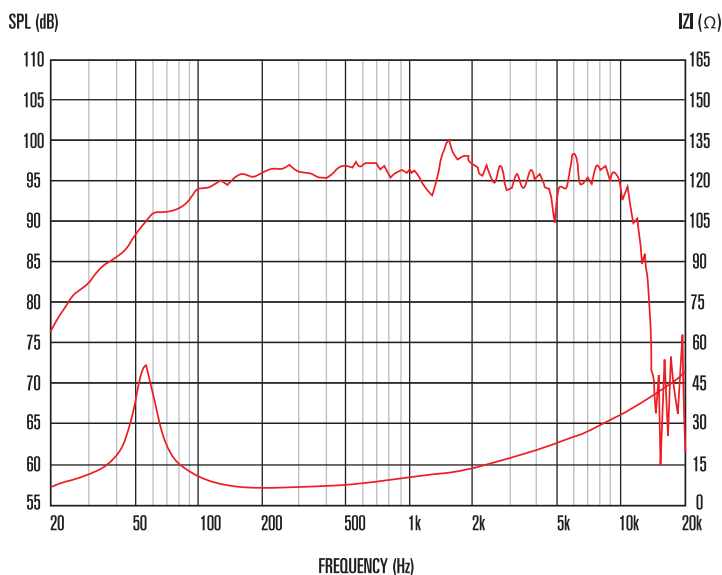
| | |
|----------------------------|-------------------------|
| Single pack size W x D x H | 333mm x 322mm x 145mm |
| | 13.1in x 12.7in x 5.7in |
| Single pack weight | 4.5kg/10lb |



Features

- 12" twin cone drive unit with extended high frequency response
- 1.75" high temperature copper voice coil for increased reliability and 100Wrms (AES standard) power handling
- Optimised cone neck/voice coil assembly for increased strength, minimising high frequency distortion and improving sound quality
- Secondary cone terminated by pressure formed cloth dust cap for enhanced mid-band clarity
- High efficiency magnet structure design delivers improved sensitivity
- Double roll surround for greater excursion control and smooth frequency response

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Tested as per the EIA-426-A standard
 4. Measured on axis at 1W, 1m in 2π anechoic environment.
 5. Xmax derived from: (voice coil winding width-gap depth)/2.
 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Compact Array

Compact array drivers

Range Overview

Recognising the growing popularity of portable and discreet line arrays in sound reinforcement applications, Celestion have introduced the AN Series: three compact and lightweight, neodymium magnet drivers optimised for this application.

AN Series loudspeakers are full-range, professional audio drive units that enable system designers to build into their products some of the principal advantages offered by line array designs: a more even distribution of the acoustic signal and the ability to project sound over greater distances.

The 2", 2.75" and 3" drivers all feature a space-efficient, square chassis profile allowing them to be positioned more closely to each other for improved coupling, and are particularly suited to use in arrays where controlled wavefront (beam steering) is used.



Compact array range

| | Nominal Diameter | Power Rating* | Nominal Impedance | Sensitivity | Frequency Range | Voice Coil Diameter | Unit Weight |
|---------------|------------------|---------------|-------------------|-------------|-----------------|---------------------|-------------|
| AN3510 | 88mm/3.5in | 35Wrms | 8Ω | 87dB | 98-19,000Hz | 25mm/1.0in | 160g/5.65oz |
| AN2775 | 70mm/2.75in | 20Wrms | 8Ω | 84dB | 160-20,000Hz | 20mm/0.75in | 100g/3.53oz |
| AN2075 | 50mm/2in | 20Wrms | 8Ω | 80dB | 160-19,000Hz | 20mm/0.75in | 97g/3.4oz |

*AES Standard

Key Technologies

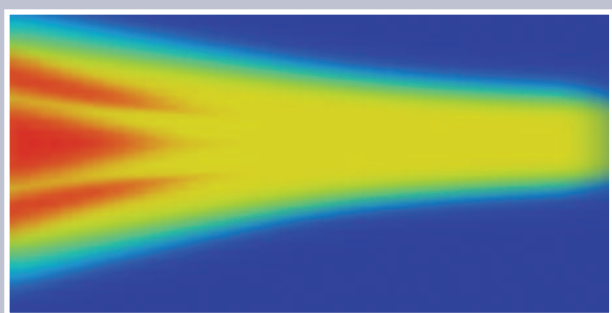
Celestion AN Series compact array drivers are optimised using Finite Element Analysis (FEA) to give a rising HF response. This results in a noticeably wider dispersion characteristic to higher frequencies than conventional loudspeakers of this size.

Chassis are purpose designed for maximum free air movement, while stiff and light aluminium cones remain rigid to higher frequencies, delivering a smoother response in the critical listening band.

Half roll elastomer surrounds enable greater excursion and lower resonance frequency for small diameter cones. They also provide damping of unwanted resonances and sustained centring control at extremes of excursion.

- **Compact and lightweight, full-range Neodymium loudspeakers**
- **Advanced FEA techniques used for acoustic, mechanical and electromagnetic modelling**
- **Ideal for applications such as portable line arrays where actively controlled wavefront (beam steering) is used**
- **Delivers wider dispersion at higher frequencies than many equivalent compact, full-range drivers**
- **Square chassis profile for close coupling**
- **All AN series drivers are weatherproof**

Typical line array vertical dispersion characteristic



Square chassis profiles allow drivers to be positioned more closely to each other for improved coupling



AN3510

Compact array driver

General Specifications

| | |
|--------------------------------------|----------------------|
| Nominal diameter | 88mm/3.5in |
| Power rating ¹ | 35Wrms |
| Continuous power rating ² | 70W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 87dB |
| Frequency range | 98-19,000Hz |
| Voice coil diameter | 25mm/1.0in |
| Chassis type | Glass reinforced ABS |
| Magnet type | Neodymium |
| Voice coil material | Round Copper |
| Former material | Polyimide |
| Cone material | Aluminium |
| Surround material | Elastomer |
| Xmax ⁴ | 1.25mm/0.04in |
| Gap depth | 4mm/0.14in |
| Voice coil winding width | 6.5mm/0.23in |

Small Signal Parameters

| | |
|-----|----------------------------|
| D | 70mm/2.76in |
| Fs | 110.1Hz |
| Mms | 3.37g/0.12oz |
| Qms | 6.59 |
| Qes | 0.66 |
| Qts | 0.67 |
| Re | 5.73Ω |
| Vas | 1.31f/0.046ft ³ |
| Bl | 4.5Tm |
| Cms | 0.62mm/N |

Mounting Information

| | |
|--------------------|-----------------------------|
| Overall depth | 50mm/2in |
| Overall size | 89.3 x 89.3mm/3.52 x 3.52in |
| Cut-out diameter | 78.8mm/3.1in |
| Fitting | 4 x M4 holes |
| Mounting PCD range | Ø104mm/4.1in |
| Unit weight | 160g/5.65oz |

Packed Dimensions & Weight

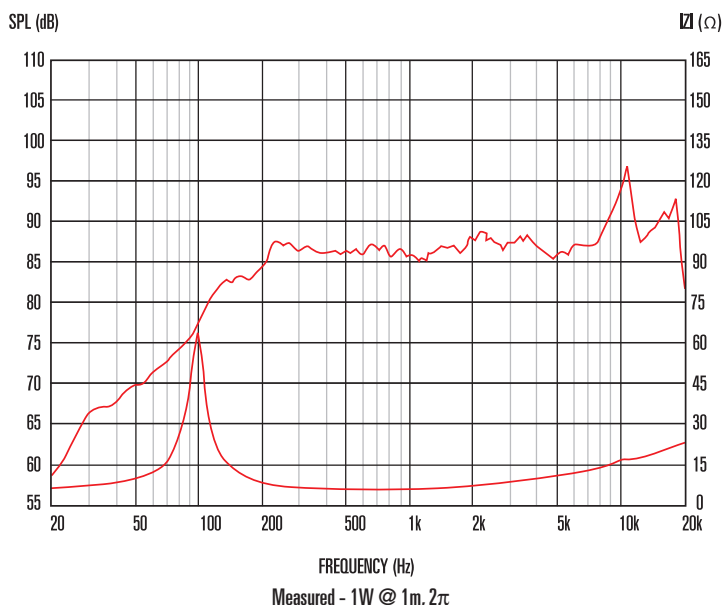
| | |
|--------------------------------|------------------------|
| Single pack size W x D x H | 115mm x 115mm x 70mm |
| | 4.5in x 4.5in x 2.8in |
| Single pack weight | 250g/0.6lb |
| Multi pack (72) size W x D x H | 460mm x 635mm x 455mm |
| | 18.1in x 25in x 17.9in |
| Multi pack (72) weight | 15kg/33lb |



Features

- Compact and lightweight, full-range neodymium loudspeakers
- Delivers wider dispersion to higher frequencies than many equivalent compact, full-range drivers on the market
- Chassis purpose-designed for maximum free air movement, with square mounting frame to facilitate close coupling of multiple units
- Stiff and light aluminium cone remains rigid to higher frequencies, delivering a smoother response in the critical listening band
- Half roll elastomer surround provides damping for unwanted resonances and sustained centring control at extremes of excursion
- Ideal for applications such as portable line arrays where actively controlled wavefront (beam steering) is used

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.



AN2775

Compact array driver

General Specifications

| | |
|--------------------------------------|----------------------|
| Nominal diameter | 70mm/2.75in |
| Power rating ¹ | 20Wrms |
| Continuous power rating ² | 40W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 84dB |
| Frequency range | 160-20,000Hz |
| Voice coil diameter | 20mm/0.75in |
| Chassis type | Glass reinforced ABS |
| Magnet type | Neodymium |
| Voice coil material | Round Copper |
| Former material | Polyimide |
| Cone material | Aluminium |
| Surround material | Elastomer |
| Xmax ⁴ | 1.5mm/0.06in |
| Gap depth | 3mm/0.12in |
| Voice coil winding width | 6mm/0.24in |

Small Signal Parameters

| | |
|-----|-----------------------------|
| D | 60mm/2.36in |
| Fs | 164.7Hz |
| Mms | 1.83g/0.06oz |
| Qms | 12.21 |
| Qes | 1.67 |
| Qts | 1.47 |
| Re | 5.20Ω |
| Vas | 0.58ft/0.020ft ³ |
| Bl | 2.43Tm |
| Cms | 0.51mm/N |

Mounting Information

| | |
|--------------------|---------------------------|
| Overall depth | 45mm/1.8in |
| Overall size | 71.3 x 71.3mm/2.8 x 2.8in |
| Cut-out diameter | 66.1mm/2.6in |
| Fitting | 4 x M4 holes |
| Mounting PCD range | Ø82mm/3.2in |
| Unit weight | 100g/3.53oz |

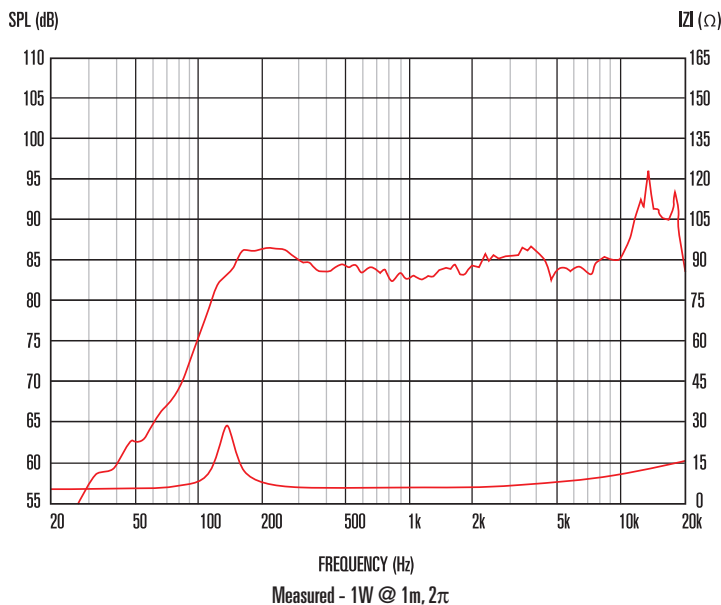
Packed Dimensions & Weight

| | |
|--------------------------------|------------------------|
| Single pack size W x D x H | 115mm x 115mm x 70mm |
| | 4.5in x 4.5in x 2.8in |
| Single pack weight | 200g/0.4lb |
| Multi pack (72) size W x D x H | 450mm x 350mm x 380mm |
| | 17.6in x 13.8in x 15in |
| Multi pack (72) weight | 10kg/22lb |

Features

- Compact and lightweight, full-range neodymium loudspeakers
- Delivers wider dispersion to higher frequencies than many equivalent compact, full-range drivers on the market
- Chassis purpose-designed for maximum free air movement, with square mounting frame to facilitate close coupling of multiple units
- Stiff and light aluminium cone remains rigid to higher frequencies, delivering a smoother response in the critical listening band
- Half roll elastomer surround provides damping for unwanted resonances and sustained centring control at extremes of excursion
- Ideal for applications such as portable line arrays where actively controlled wavefront (beam steering) is used

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.



AN2075

Compact array driver

General Specifications

| | |
|--------------------------------------|----------------------|
| Nominal diameter | 50mm/2in |
| Power rating ¹ | 20Wrms |
| Continuous power rating ² | 40W |
| Nominal impedance | 8Ω |
| Sensitivity ³ | 80dB |
| Frequency range | 160Hz-19,000Hz |
| Voice coil diameter | 20mm/0.75in |
| Chassis type | Glass reinforced ABS |
| Magnet type | Neodymium |
| Voice coil material | Round Copper |
| Former material | Polyimide |
| Cone material | Aluminium |
| Surround material | Elastomer |
| Xmax ⁴ | 1.5mm/0.06in |
| Gap depth | 3mm/0.12in |
| Voice coil winding width | 6mm/0.24in |

Small Signal Parameters

| | |
|-----|-----------------------------|
| D | 40mm/1.57in |
| Fs | 183.3Hz |
| Mms | 1.37g/0.05oz |
| Qms | 10.12 |
| Qes | 1.22 |
| Qts | 1.09 |
| Re | 5.28Ω |
| Vas | 0.12lf/0.004ft ³ |
| Bl | 2.60Tm |
| Cms | 0.55mm/N |

Mounting Information

| | |
|--------------------|---------------------------|
| Overall depth | 43.5mm/1.7in |
| Overall size | 56.2 x 56.2mm/2.2 x 2.2in |
| Cut-out diameter | 51.1mm/2.0in |
| Fitting | 4 x M4 holes |
| Mounting PCD range | Ø62mm/2.45in |
| Unit weight | 97g/3.4oz |

Packed Dimensions & Weight

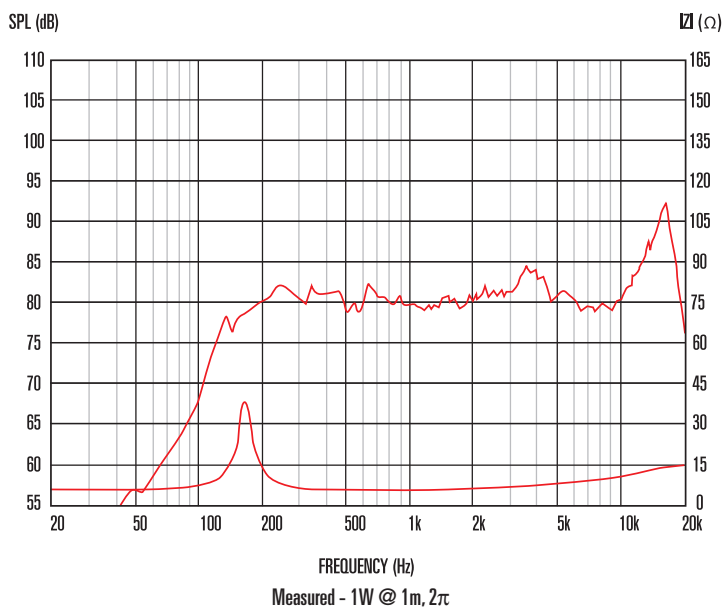
| | |
|--------------------------------|------------------------|
| Single pack size W x D x H | 90mm x 90mm x 65mm |
| | 3.5in x 3.5in x 2.6in |
| Single pack weight | 200g/0.4lb |
| Multi pack (72) size W x D x H | 450mm x 350mm x 380mm |
| | 17.6in x 13.8in x 15in |
| Multi pack (72) weight | 10kg/22lb |



Features

- Compact and lightweight, full-range neodymium loudspeakers
- Delivers wider dispersion to higher frequencies than many equivalent compact, full-range drivers on the market
- Chassis purpose-designed for maximum free air movement, with square mounting frame to facilitate close coupling of multiple units
- Stiff and light aluminium cone remains rigid to higher frequencies, delivering a smoother response in the critical listening band
- Half roll elastomer surround provides damping for unwanted resonances and sustained centring control at extremes of excursion
- Ideal for applications such as portable line arrays where actively controlled wavefront (beam steering) is used

Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
 2. Continuous Power Handling is defined as 3dB greater than the AES rating.
 3. Measured on axis at 1W, 1m in 2π anechoic environment.
 4. Xmax derived from: (voice coil winding width-gap depth)/2.



www.celestion.com

Celestion,
Claydon Business Park,
Great Blakenham,
Ipswich IP6 0NL,
UK
Tel: +44 (0)1473 835300

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