

### MMC4017, MMC4017 Shotgun Microphone Capsule

The MMC4017 capsule is part of the flexible DPA Reference Standard series.

Equipped with a highly directional supercardioid pickup pattern, obtained using a supercardioid design with an interference tube that provides excellent off-axis rejection, the DPA 4017B combined with the MMP-B preamplifier is a short and exceptionally lightweight shotgun microphone that truly measures up to DPA's impressive reputation for accuracy, clarity, and musicality.

Designed for a broad range of applications, the 4017B is ideal for use with camera systems, in fixed positions at sports facilities, for broadcast/ENG/film booming, and even studio recording environments. Tune out the surroundings

Extensive research and development has been undertaken to optimize the sound coming from the sides and behind the microphone. Minimizing the often very un-linear response of a shotgun microphone due to its side lobes is one of the key accomplishments of the MMC4017. The condenser capsule uses a high voltage pre-polarized back plate, endowing the shotgun with high output as well as wide dynamics, extremely low noise and distortion specifications.

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For more information please visit:  
[www.dpamicrophones.com](http://www.dpamicrophones.com)

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**Directional pattern:**  
Supercardioid, lobe-shaped

**Principle of operation:**  
Pressure gradient, with interference tube

**Cartridge type:**  
Pre-polarized condenser

**Frequency range:**  
20 Hz to 20 kHz

**Frequency range,  $\pm 2$  dB:**  
40 Hz to 20 kHz

**Sensitivity, nominal,  $\pm 2$  dB at 1 kHz:**  
19 mV/Pa; -34 dB re. 1 V/Pa

**Equivalent noise level, A-weighted:**  
Typ. 14 dB(A) re. 20  $\mu$ Pa (max. 15 dB(A))

**Equivalent noise level, ITU-R BS.468-4:**  
Typ. 25 dB (max. 26 dB)

**S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL):**  
Typ. 80 dB(A)

**Color:**  
Matte black

**Weight:**  
30 g (1.1 oz)

**Diameter:**  
19 mm (0.75 in)

**Capsule size:**  
19 mm (0.75 in)

**Length:**  
113 mm (4.4 in)

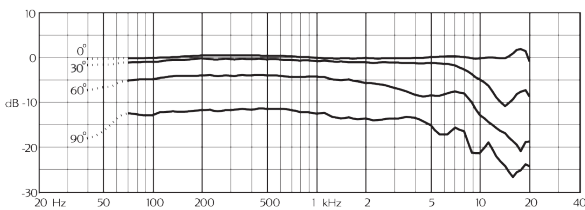
**Temperature range:**  
-40 °C to 45 °C (-40 °F to 113 °F)

**Relative Humidity (RH):**  
Up to 90 %

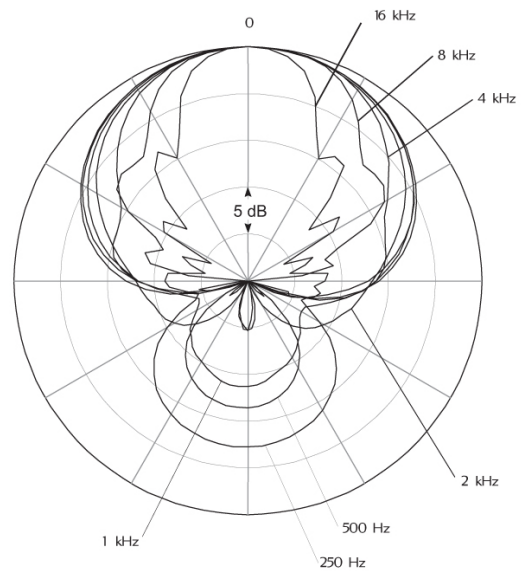
## Diagrams

### MMC4017, MMC4017 Shotgun Microphone Capsule

On- and off-axis responses of MMC4017 measured at 60 cm (23.6 in)



Directional characteristics of DPA MMC4017 (normalized)



Directional characteristics of DPA MMC4017 (normalized)



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