



4098 Miniature Supercardioid Gooseneck Microphone

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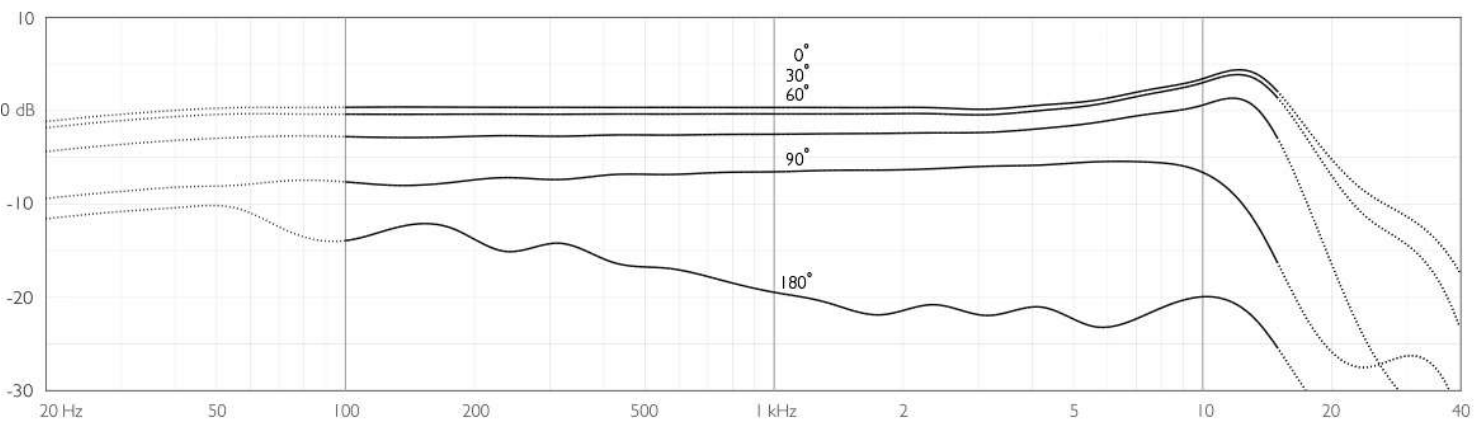
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Specifications

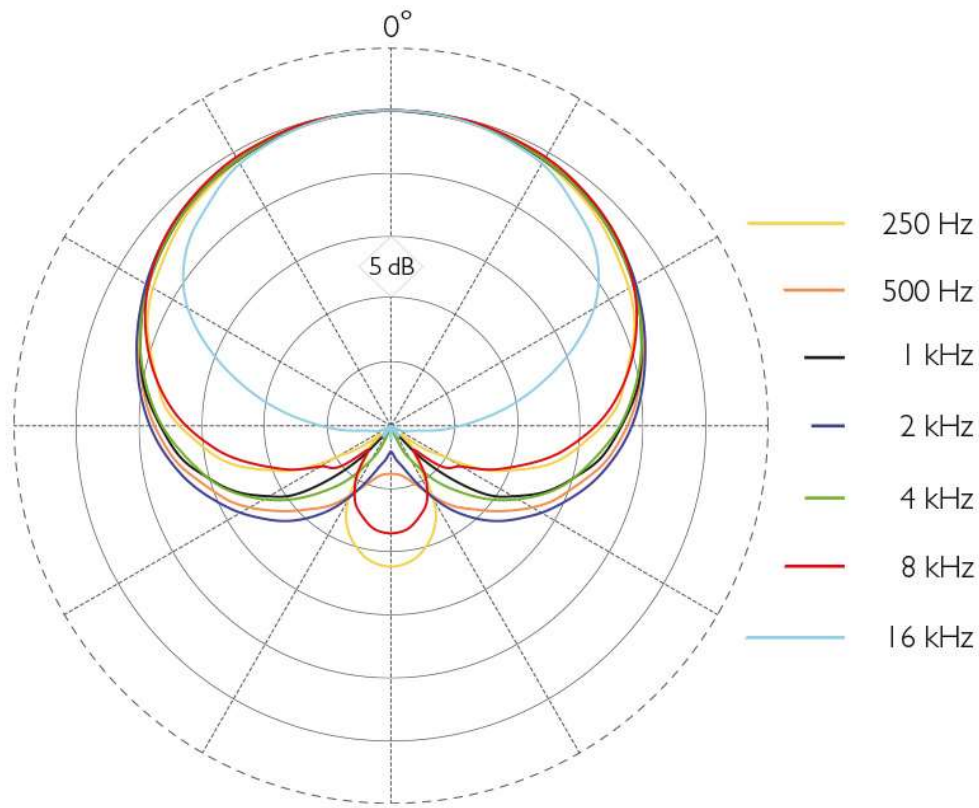
Directional pattern	Supercardioid
Principle of operation	Pressure gradient
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz

Effective frequency range ±2 dB, at 20 cm (7.9 in)	MicroDot: 80 Hz - 15 kHz with 3 dB soft boost at 8-15 kHz XLR-3M: 100 Hz - 15 kHz with 3 dB soft boost at 8-15 kHz and permanent 2nd order low-cut filter at 80 Hz
Sensitivity, nominal, ±3 dB at 1 kHz	16 mV/Pa; -36 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 35 dB (max. 38 dB)
Distortion, THD < 1% - Legacy	122 dB SPL RMS, 125 dB SPL peak
Distortion, THD < 1% - CORE	130 dB SPL RMS, 133 dB SPL peak
Dynamic range - Legacy	Typ. 102 dB
Dynamic range - CORE	Typ. 110 dB
Max. SPL, THD 10%	135 dB SPL peak
Rated output impedance	From MicroDot: 30 - 40 Ω. From XLR connector or DAD6001-BC XLR Adapter: 100 Ω
Minimum load impedance	2 kΩ
Cable drive capability	MicroDot: Up to 300 m (984 ft) with DAD6001-BC XLR Adapter XLR-3M: Up to 100 m (328 ft)
Output balance principle	Signal balanced with XLR connector or DAD6001-BC XLR Adapter
Common mode rejection ratio (CMRR)	> 60 dB from 50 Hz to 15 kHz with DAD6001-BC XLR Adapter
Power supply (for full performance)	MicroDot: Min. 5 V to max. 10 V through DPA adapter for wireless systems or P48 (Phantom Power) with DAD6001-BC XLR adapter XLR-3M: P48 (Phantom Power)
Current consumption	Typ. 1.5 mA (microphone). 3.5 mA with DAD6001-BC XLR Adapter
Connector	MicroDot or XLR-3M
Color	Black or white

Weight	Microdot: 16 cm (6 in): 12 g (0.4 oz) 28 cm (11 in): 20 g (0.7 oz) 43 cm (17 in): 28 g (1.0 oz) 77 cm (30 in): 55 g (1.9 oz) 122 cm (48 in): 67 g (2.4 oz)
	XLR-3M: 20 cm (8 in): 75 g (2.6 oz) 32 cm (13 in): 80 g (2.8 oz) 47 c
Microphone diameter	5.7 mm (0.22 in)
Microphone length	Microdot: 16 cm (6 in), 28 cm (11 in), 43 cm (17 in), 77 cm (30 in), 122 cm (48 in) XLR-3M: 20 cm (8 in), 32 cm (13 in), 47 cm (18 in), 77 cm (30 in), 122 cm (48 in).
Polarity	+V at MicroDot pin for positive sound pressure (and pin 2 on XLR connector or DAD6001-BC XLR adapter)
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%



Typical on and off-axis response of DPA 4098



Typical directional characteristics of DPA 4098

Adapters & connectors

DPA's adapters for wireless systems give you flexible, simple and affordable possibilities. You are no longer bound to only one wireless system.

>> Microphone adapters

In addition, DPA has # fixed connections available, like LEMO 3 pin, TA4F mini-XLR and Mini-Jack. Please visit our product configurator to learn more:

>> 4098 Miniature Supercardioid Gooseneck Mic configurator (Floor stand solution)

>> 4098 Miniature Supercardioid Gooseneck Mic configurator (Tabletop & Ceiling solution)