4099C, 4099C Clip Microphone for Cello and more

Directional characteristics:
Supercardioid

Principle of operation:
Pressure gradient

Cartridge type:
Pre-polarized condenser

Frequency range, ± 2 dB, 20 cm (7.9 in) distance:
80 Hz – 15 kHz with 2 dB soft boost at 10 – 12 kHz; first-order low-cut filter at 80 Hz with DAD4099

Sensitivity, nominal, ±3 dB:
6 mV/Pa; -44.5 dB re. 1 V/Pa

Equivalent noise level A-weighted:
Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A))

S/N ratio, re. 1 kHz at 1 Pa (94 dB SPL):
71 dB

Total harmonic distortion (THD):
<1 % up to 123 dB SPL peak; <1 % up to 120 dB SPL RMS sine

Dynamic range:
100 dB

Max. SPL, peak before clipping:
142 dB

Output impedance:
From MicroDot: 30 – 40 ohm, from DAD4099: 100 ohm

Cable drive capability:
300 m (984 ft) with DAD4099

Output balance principle:
Signal balanced with enclosed DAD4099 XLR adapter

Common Mode Rejection Ratio (CMRR):
> 60 dB at 50 Hz to 15 kHz with DAD4099 XLR adapter

Power supply:
Min. 5 V – max. 50 V through DPA adapter for wireless systems; 48 V phantom power ±4 V with DAD4099 XLR adapter

Current consumption:
1.5 mA; 3.5 mA with DAD4099 XLR adapter

Connector:
MicroDot

Color:
Black

Weight:
33 g (1.16 oz)

Microphone length:
45 mm (1.8 in)

Cable length:
1.8 m (6 ft)

Polarity:
Positively increasing sound pressure produces positive going voltage at MicroDot pin (and pin 2 on DAD4099 XLR adapter)

Operating temperature range:
-40 °C to 45 °C (14 °F to 113 °F)

Relative humidity:
Up to 90 %

Gooseneck, length:
140 mm (5.5 in)

Diagrams

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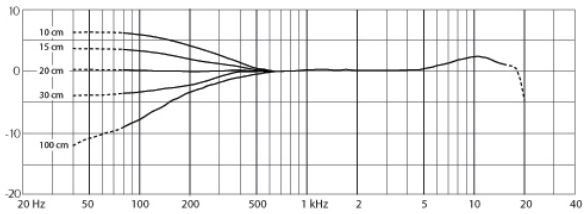
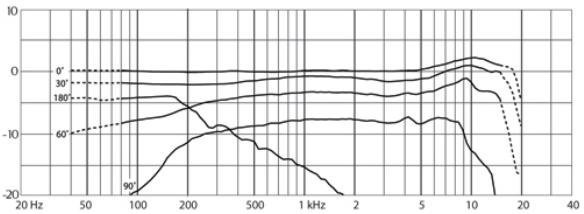
The proximity effect exhibited by DPA 4099



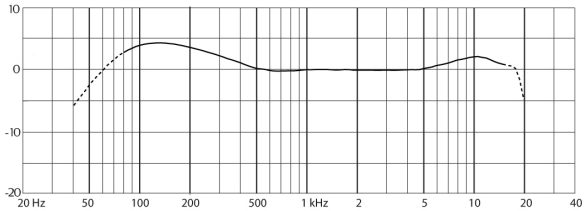
The proximity effect exhibited by DPA 4099

Typical on- and off-axis frequency response of DPA 4099 at 20 cm (7.9 in) distance



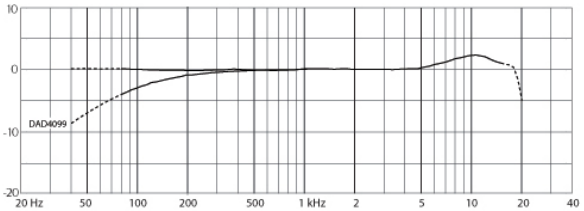
Typical on- and off-axis frequency response of DPA 4099 at 20 cm (7.9 in) distance

Frequency response of DPA 4099 with DAD XLR adapter at 10 cm (4 in) distance



Typical on- and off-axis frequency response of DPA 4099 with DAD XLR adapter at 10 cm (4 in) distance

Typical on- and off-axis frequency response of DPA 4099 with DAD XLR adapter at 20 cm (7.9 in) distance



Typical on- and off-axis frequency response of DPA 4099 with DAD XLR adapter at 20 cm (7.9 in) distance