

4099P, 4099P Stereo Microphone System for Piano and more



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- High gain-before-feedback
- Flat frequency response
- Compact, discrete size
- Excellent phase characteristic

4099P is a piano miking solution that makes it easy to achieve a high level of isolation on stage while providing clean and transparent stereo sound quality with realistic dynamics.

The 4099P is a complete system which includes a pair of sensitivity matched 4099 microphones on goosenecks with magnetic mounts to allow the most realistic capture of a piano. With its low profile and unobtrusive design it is perfect in closed lid scenarios for capturing true acoustic piano sound in a live setting.

The versatile magnet mount/gooseneck system provides stable and repeatable positioning. The mics can easily be positioned at different angles via the flexible gooseneck to provide a variety of sound nuances. The system includes two 3-pin XLR adapters.

The mounts can also be used with various instruments with magnetic surfaces.

The package includes
Two sensitivity selected supercardioid 4099 gooseneck mics
Integrated windscreen and shock mount system
Magnet mounts to place on piano frame
Two DAD6001 3-pin XLR adapters

For more information please visit:
www.dpamicrophones.com

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Directional characteristics:

Supercardioid

Principle of operation:

Pressure gradient

Cartridge type:

Pre-polarized condenser

Frequency range:

20 Hz to 20 kHz

Frequency range, ± 2 dB, 20 cm (7.9 in) distance:

80 Hz to 15 kHz with 2 dB soft boost at 10 to 12 kHz

Sensitivity, nominal ± 3 dB at 1 kHz:

6 mV/Pa; -44,5 dB re. 1 V/Pa

Equivalent noise level, A-weighted:

Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))

S/N ratio (A-weighted), 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 to 40 ohm; from DAD6001: 100 ohm

Cable drive capability:

Up to 300 m (984 ft) with DAD6001 XLR adapter

Output balance principle:

Signal balanced with DAD6001 XLR adapter

Common Mode Rejection Ratio (CMRR):

> 60 dB from 50 Hz to 15 kHz with DAD6001 XLR adapter

Power supply (for full performance):

Min. 5 V to max. 50 V through DPA adapter for wireless systems, 48 V phantom power +/- 4 V with DAD6001 XLR adapter

Current consumption:

Typ. 1.5 mA (microphone). 3.5 mA with DAD6001 XLR adapter

Connector:

MicroDot

Color:

Black

Microphone weight:

46 g (1.62 oz)

Capsule diameter:

5.4 mm (0.2 in)

Microphone length:

45 mm (1.8 in)

Cable length:

1.8 (6 ft)

Polarity:

Positively increasing sound pressure produces positive-going voltage at MicroDot pin (and pin 2 on DAD6001 XLR adapter)

Temperature range:

-40 °C to 45 °C (-40 °F to 113 °F)

Relative Humidity (RH):

Up to 90%

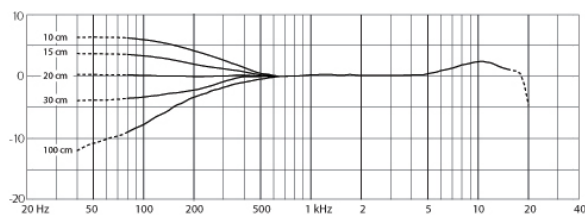
Gooseneck length:

140 mm (5.5 in)

Diagrams

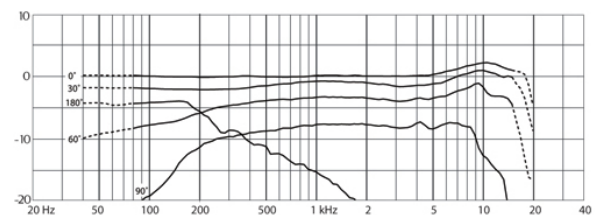
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The proximity effect exhibited by DPA 4099



The proximity effect exhibited by DPA 4099

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



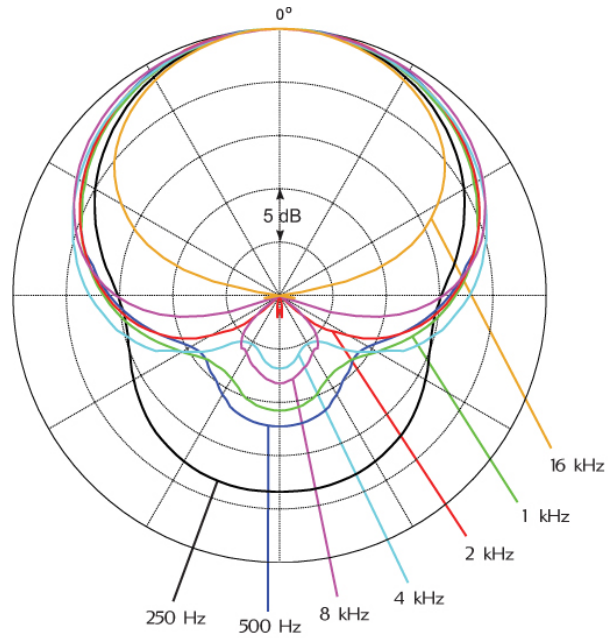
Typical on- and off-axis frequency response of DPA 4099 at 20 cm (7.9 in) distance

Changes in specifications for 4099 (low sens) if you supply less than 48V Phantom power

	48 V	42 V	36 V	32 V	24 V	18 V	12 V	9 V
Noise (dBA)	26	26	26	27	27	28	30	Not recommended
SPL limit dB	142	142	142	142	136	126	122	Not recommended
V RMS	3	2	1.8	1.4	0.8	0.25	0.15	Not recommended

Changes in specifications for 4099 (low sens) if you supply less than 48V Phantom power (click for larger view)

Directional characteristics of DPA 4099 (normalized)



Directional characteristics of DPA 4099 (normalized)



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