

4099V, 4099V Clip Microphone for Violin, Mandolin, and more



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Sting

- Superior gain-before-feedback
- Wireless compatible
- Flexible and easy one-hand mounting
- Holder gentle to the instrument

Violin, banjo and viola players will appreciate how gently the 4099V adheres to a prized instrument while its elegantly lightweight, unobtrusive design keeps it from getting in the way of a passionate performance.

The 4099V is a unique clip microphone inheriting the sonic approach from the legendary DPA studio microphones to a new instrument microphone. The 4099 microphone and mounting system is meticulously designed and optimized for the string family. This is to ensure the best possible mount and audio reinforcement is achieved when performing live. The 4099V fits other instruments with a body depth between 35 mm (1.4 in) and 55 mm (2.1 in).

Representing years of research and development, the 4099 condenser microphones feature supercardioid polar patterns for superior gain-before-feedback. Fully capable of handling the violin's dynamic range and subtle details, these microphones live up to their pedigree with sound as accurate as DPA's other world-class microphones.

Despite its tiny, discreet size and elegant, lightweight design, 4099V is extremely rugged. The versatile gooseneck provides stable and repeatable positioning. The mics can be easily unclipped and repositioned or moved to another instrument with only one hand, while the mounting system is designed never to mar or scratch the finish of your instrument.

Through the use of our extensive adapter system, the 4099 is compatible with virtually any wireless system and can also be used as a

standard 48V phantom powered microphone via the included XLR connector.

Fleet owners of 4099s will appreciate the multiplicity of using the microphone for a number of different instruments simply by moving the microphone/gooseneck part to another instrument clip from the range.

With its very flexible design for a wide variety of mounting and positioning possibilities along with its extremely natural sound, the 4099 is truly a musician's mic without equal. Continuing DPA's heritage of sonic excellence, this series of microphones achieves the purest reproduction of your instrument and therefore your full range of expression.

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, ± 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 μ Pa (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)

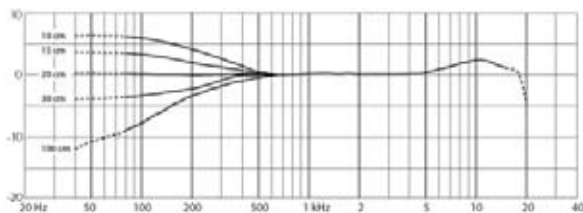
Holder:

Fits other instruments with a body depth between 35 mm (1.4 in) and 55 mm (2.1 in)

Diagrams

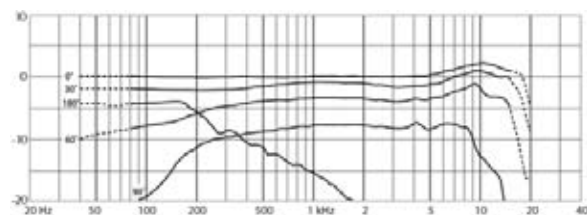
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The proximity effect exhibited by DPA 4099



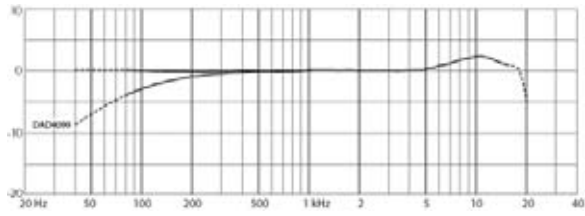
The proximity effect exhibited by DPA 4099

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



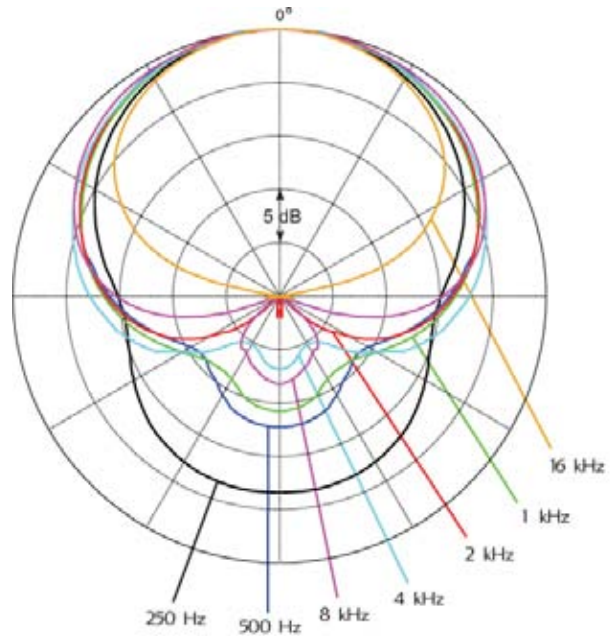
Typical on- and off-axis frequency response of DPA 4099 at 20 cm (7.9 in) distance

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

Directional characteristics of DPA 4099 (normalized)



Directional characteristics of DPA 4099 (normalized)

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

	48 V	42 V	36 V	33 V	34 V	30 V	24 V	0 V
Max. SPL	142	142	142	142	138	136	122	Not recommended
V RMS	1	1	1.6	2.4	3.6	6.25	9.15	Not recommended

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