

# 4099D, d:vote™ 4099D Clip Microphone for Drum



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Watch video: introduction to 4099D for drums and percussion

- Excellent frequency and phase response
- Capable of handling extremely high SPLs
- Compact, discreet size
- Versatility in mounting options
- Detachable cable and versatile gooseneck extender

4099D is a microphone solution that allows for high quality audio capture of drums and percussion instruments. The low profile and unobtrusive design provides visual elegance along with uncompromised sound quality and accurate dynamics.

The unique and flexible clip-on system provides fast, stable and repeatable positioning. The mics can be easily positioned at different angles via the flexible gooseneck to fit different drums and allow a variety of sound nuances. The 4099D includes a 3-pin XLR phantom power adapter.

The 4099D unveils a revolutionary new "90 degree" system which provides many more mounting options. By detaching the clip from the gooseneck and re-mounting it turned 90 degrees, the number of mic positions is doubled.

4099D can easily be combined in numerous ways and with a wide variety of microphones. For bass drum, the DPA VC4099 clip fits perfect on the rim and makes a DPA Microphones drum-sound revelation possible at a reasonable price level.

Optional gooseneck extension Standard gooseneck length is 140 mm (5.5 in), which can be altered with the optional gooseneck extension unit, adding another 50% to the length, helping to achieve exactly the sweet spot for the instrument.

Detachable cables The updated 4099 range features detachable cable from gooseneck, so it's more convenient to mount the mic on an instrument before connecting it. Furthermore, the choice of different cable qualities makes it possible to tailor your mic to the specific task, such as choosing the heavy duty 2.2 mm cable for PA/Live gigs or the easier-to-hide, thinner miniature cable for personal mounting on instruments where you don't want the cable weight to interfere with your performance. In case of cable break, service is easy and fast.

The package includes Supercardioid gooseneck mic with cable Integrated windscreen and shock mount system Clip to attach on drums and various percussion (also available separately as DC4099) XLR adapter

Adapters for wireless microphones A wide range of connection adapters makes it possible to use DPA miniature microphones with all professional UHF, VHF or digital wireless system available plus 48 V Phantom.

DPA has specific adapters for AKG, Audio Ltd., Audio-Technica, Beyerdynamic, Electro-Voice, Lectrosonics, Micron, Mipro, Pastega, Telex ProStar, Ramsa, Samson, Sennheiser, Shure, Sony, Toa, Vega and other systems. Each adapter for your cordless microphone is guaranteed to perfectly mate to your system of choice.

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For more information please visit:  
[www.dpamicrophones.com](http://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, $\pm 2$ dB, 20 cm (7.9 in) distance:

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

## Sensitivity, nominal $\pm 3$ dB at 1 kHz:

2 mV/Pa; -54 dB re. 1 V/Pa

## Equivalent noise level, A-weighted:

Typ. 28 dB(A) re. 20 mPa (max. 31 dB(A))

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

66 dB(A)

## Total Harmonic Distortion (THD):

<1 % up to 123 dB SPL peak; <1 % up to 120 dB SPL RMS sine

## Dynamic range:

95 dB

## Max. SPL, peak before clipping:

152 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  $\pm 4$  V with DAD6001 XLR adapter

## Current consumption:

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

## Connector:

MicroDot

## Color:

Black

## Capsule diameter:

5.4 mm (0.2 in)

## 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 DAD6001 XLR adapter)

## Temperature range:

-40 °C to 45 °C (-40 °F to 113 °F)

## Relative Humidity (RH):

Up to 90%

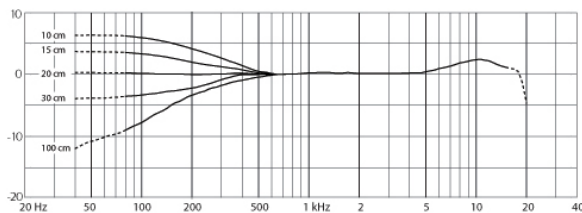
## Gooseneck length:

140 mm (5.5 in)

## Diagrams

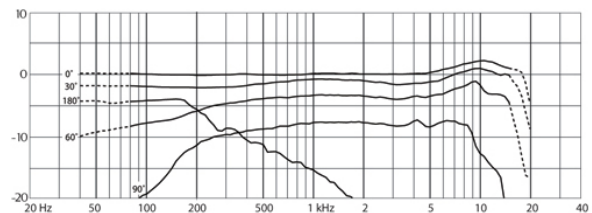
### 4099D, d:vote™ 4099D Clip Microphone for Drum

The proximity effect exhibited by DPA 4099



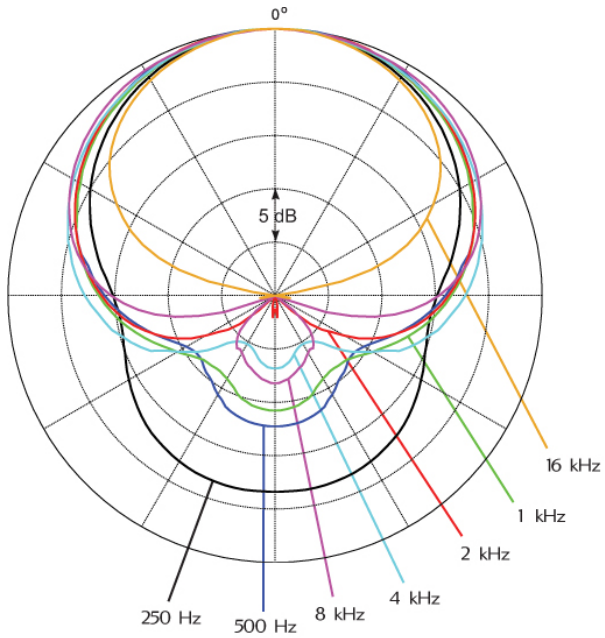
The proximity effect exhibited by DPA 4099

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

Directional characteristics of DPA 4099 (normalized)



Directional characteristics of DPA 4099 (normalized)



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