

BC4099



Clip for Bass and more
(included with 4099B)

CC4099



Clip for Cello and more
(included with 4099C)

DC4099



Clip for Drum
(included with 4099D)

GC4099



Clip for Guitar; Dobro, and more
(included with 4099G)

PC4099



Magnet holder for Piano and more
(included with 4099P)

STC4099



Clip for Sax, Trumpet, and more
(included with 4099S and 4099T)

UC4099



Universal Clip
(included with 4099U)

VC4099



Clip for Violin, Mandolin, and more
(included with 4099V)

DAD4099



MicroDot to 3-pin XLR (P48) w/ Belt Clip and Low-Cut
(included with 4099D/G/P/S/T/V)

DAD6001-BC



MicroDot to 3-pin XLR (P48) w/ Belt Clip
(included with 4099B/C/U)

UA0639



Microphone holder
(included with 4090/4091)

DMM0007



Universal Surface Mount

DUA0573



Foam windscreen for 4090/91
(included with 4090/91)

DUA4099



Foam Windscreen for 4099
(included with all 4099 clip mics)

DAO4099

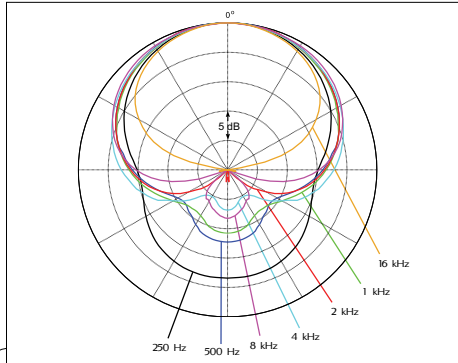


Double Cable, 5 m (16.4 ft)

Accessories

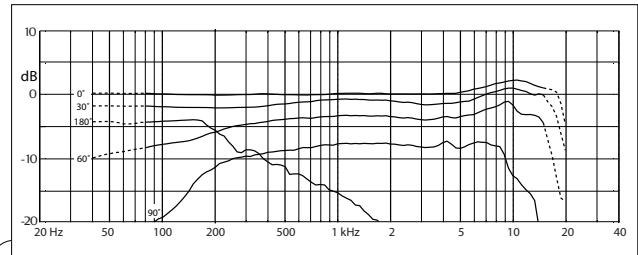
Find more information on
dpamicrophones.com/accessories

Specifications for DPA 4099



Polar Pattern

Directional characteristics of DPA 4099 (normalized)



On-Axis Frequency Response

Measured at 20 cm (7.9 in) distance

Directional characteristics

Supercardioid

Principle of operation

Pressure gradient

Cartridge type

Pre-polarized condenser

Frequency range

20 Hz - 20 kHz

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

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

Second order low-cut filter at 80 Hz with DAD4099

Sensitivity, nominal, ± 3 dB at 1 kHz

4099B/4099C/4099G/4099P/4099S/4099U/4099V:

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

4099D/4099T: 2 mV/Pa; -54 dB re. 1 V/Pa

Equivalent noise level, A-weighted

4099B/4099C/4099G/4099P/4099S/4099U/4099V:

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

4099D/4099T: Typ. 28 dB(A) re. 20 μ Pa (max. 31 dB(A))

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

4099B/4099C/4099G/4099P/4099S/4099U/4099V: Typ. 71 dB(A)

4099D/4099T: Typ. 66 dB(A)

Total Harmonic Distortion (THD)

< 1 % up to 123 dB SPL peak

< 1 % up to 120 dB SPL RMS sine

Dynamic range

4099B/4099C/4099G/4099P/4099S/4099U/4099V: Typ. 100 dB

4099D/4099T: Typ. 95 dB

Max. SPL, peak before clipping

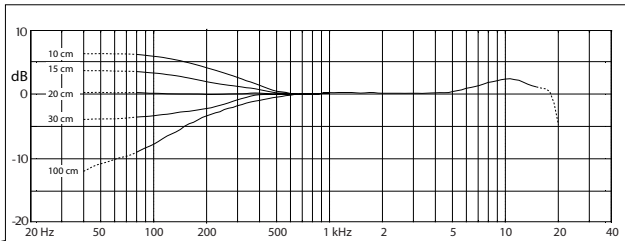
4099B/4099C/4099G/4099P/4099S/4099U/4099V: 142 dB

4099D/4099T: 152 dB

Output impedance

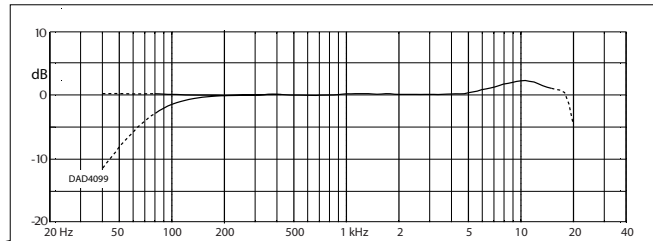
From MicroDot: 30 - 40 ohm

From DAD4099/DAD6001-BC: 100 ohm



The Proximity Effect

The proximity effect exhibited by DPA 4099



On-Axis Frequency Response with DAD4099 XLR Adapter

Measured at 20 cm (7.9 in) distance

Cable drive capability

Up to 300 m (984 ft) with DAD4099 or DAD6001-BC XLR adapter

Output balance principle

Signal balanced with DAD4099 or DAD6001-BC XLR adapter

Common Mode Rejection Ratio (CMRR)

> 60 dB from 50 Hz to 15 kHz with DAD4099 or DAD6001-BC 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 DAD4099 or DAD6001-BC XLR adapter

Current consumption

Typ. 1.5 mA (microphone)

3.5 mA with DAD4099 or DAD6001-BC XLR adapter

Connector

MicroDot

Color

Black

Weight

4099B: 46 g (1.62 oz)

4099C: 38 g (1.34 oz)

4099D: 38 g (1.34 oz)

4099G: 36 g (1.27 oz)

4099P: 46 g (1.62 oz)

4099S: 31 g (1.1 oz)

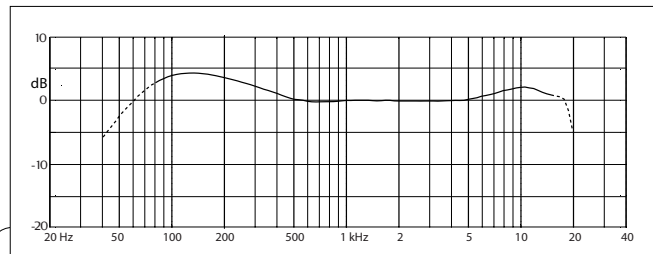
4099T: 31 g (1.1 oz)

4099U: 41 g (1.4 oz)

4099V: 33 g (1.16 oz)

Capsule diameter

5.4 mm (0.2 in)



On-Axis Frequency Response with DAD4099 XLR Adapter

Measured at 10 cm (3.9 in) distance

Microphone length

45 mm (1.8 in)

Gooseneck length

140 mm (5.5 in)

Cable length

1.8 m (6 ft)

Polarity

+V at MicroDot pin for positive sound pressure

(and pin 2 on DAD4099 or DAD6001-BC XLR adapter)

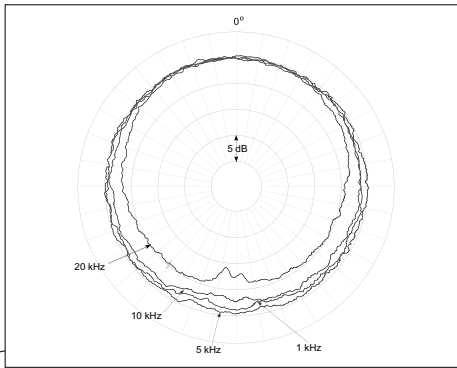
Operating temperature range

-40 °C to 45 °C (-40 °F to 113 °F)

Operating relative humidity

Up to 90 %

Specifications for DPA 4090 & 4091



Polar Pattern

Directional characteristics of DPA 4090 & 4091 (normalized)

Directional characteristics

Omnidirectional

Principle of operation

Pressure

Cartridge type

Pre-polarized condenser

Frequency range, ± 2 dB

20 Hz – 20 kHz

Sensitivity, nominal, ± 3 dB at 1 kHz

4090: 20 mV/Pa; -34 dB re. 1 V/Pa

4091: 6 mV/Pa; -44 dB re. 1 V/Pa

Equivalent noise level, A-weighted

4090: Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))

4091: Typ. 26 dB(A) re. 20 μ Pa (max. 28 dB(A))

Equivalent noise level, ITU-R BS.468-4

4090: Typ. 35 dB (max. 38 dB)

4091: Typ. 38 dB (max. 40 dB)

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

4090: Typ. 71 dB(A)

4091: Typ. 68 dB(A)

Total Harmonic Distortion (THD)

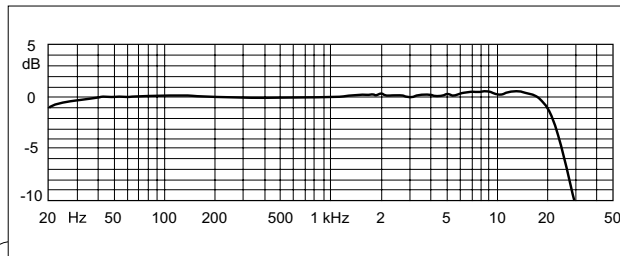
< 1 % up to 123 dB SPL peak

Dynamic range

4090: Typ. 100 dB; 4091: Typ. 97 dB

Max. SPL, peak before clipping

4090: 134 dB; 4091: 144 dB



On-Axis Frequency Response

Output impedance

< 40 ohm

Cable drive capability

Up to 300 m (984 ft)

Output balance principle

Impedance balanced

Common Mode Rejection Ratio (CMRR)

> 40 dB

Power supply (for full performance)

48 V Phantom power ± 4 V

Current consumption

2 mA

Connector

3-pin XLR-M

Color

Black

Dimensions

Weight: 38 g (1.34 oz)

Microphone diameter: 19 mm (0.75 in); at tip: 6.7 mm (0.26 in)

Capsule diameter: 5.4 mm (0.21 in)

Microphone length: 122 mm (4.8 in)

Polarity

+V at pin 2 for positive sound pressure

Operating conditions

Temperature range: -40 °C to 45 °C (-40 °F to 113 °F)

Operation relative humidity

Up to 90 %