



## d:vote™ CORE 4099 Instrument Microphones



The award-winning d:vote™ has been updated with CORE by DPA technology. The series is designed with a supercardioid polar pattern for high rejection and superior gain-before-feedback. The mics retain a uniform off-axis frequency response. The d:vote™ series is very adaptable, due to the wide selection of ingenious mounting options offered. In fact, the same microphone can be used with 10 different clips, allowing it to be used on almost any instrument. The correct variant to use depends on the type of instrument the mic is being used on.

### d:vote™ for Loud SPL

- 4099-DC-1-101-A for Accordion
- 4099-DC-1-201-B for Bass
- 4099-DC-1-201-C for Cello
- 4099-DC-1-101-CM with Clamp Mount
- 4099-DC-1-199-G for Guitar
- 4099-DC-1-101-P for Piano
- 4099-DC-1-199-S for Saxophone
- 4099-DC-1-101-SM with Stand Mount
- 4099-DC-1-101-U Universal
- 4099-DC-1-199-V for Violin

### d:vote™ for Extreme SPL

- 4099-DC-2-201-D for Drum
- 4099-DC-2-199-T for Brass

Visit [dparamicrophones.com/how2dvote](https://dparamicrophones.com/how2dvote) to learn how to correctly position your d:vote™ on your instrument.

# Specifications

## Directional characteristics

Supercardioid

## Principle of operation

Pressure gradient

## Cartridge type

Pre-polarized condenser

## Frequency range

20 Hz - 20 kHz

## Frequency range, $\pm 2$ dB, 20 cm (7.9 in)

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

Second order low-cut filter at 80 Hz with DAD4099-BC

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

dvote™ for Loud SPL: 6 mV/Pa; -44 dB re. 1 V/Pa

dvote™ for Extreme SPL: 2 mV/Pa; -54 dB re. 1 V/Pa

## Equivalent noise level, A-weighted

dvote™ for Loud SPL: Typ. 23 dB(A) re. 20  $\mu$ Pa (max. 26 dB(A))

dvote™ for Extreme SPL: Typ. 28 dB(A) re. 20  $\mu$ Pa (max. 31 dB(A))

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

dvote™ for Loud SPL: 71 dB

dvote™ for Extreme SPL: 66 dB

## Total harmonic distortion (THD)

dvote™ for Loud SPL: < 1 % up to 131 dB SPL peak

dvote™ for Extreme SPL: < 1 % up to 137 dB SPL peak

## Dynamic range

dvote™ for Loud SPL: Typ. 108 dB

dvote™ for Extreme SPL: Typ. 109 dB

## Max. SPL, peak before clipping

dvote™ for Loud SPL: 142 dB

dvote™ for Extreme SPL: 152 dB

## Output impedance

From MicroDot: 30 - 40  $\Omega$

From DAD4099-BC/DAD6001-BC: 100  $\Omega$

## Cable drive capability

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

## Output balance principle

Signal balanced with DAD4099-BC or DAD6001-BC XLR Adapter

## Common mode rejection ratio (CMRR)

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

## Power supply (for full performance)

Min. 5 V – max. 50 V through DPA adapter for wireless systems

48 V phantom power  $\pm 4$  V with DAD4099-BC or DAD6001-BC XLR Adapter

## Current consumption

Typ. 1.5 mA (microphone)

3.5 mA with DAD4099-BC or DAD6001-BC XLR Adapter

## Connector

MicroDot

## Microphone length

45 mm (1.8 in)

## Cable length / cable diameter

1.8 m (5.9 ft) / 1.6 mm (0.06 in) or 2.2 mm (0.09 in)

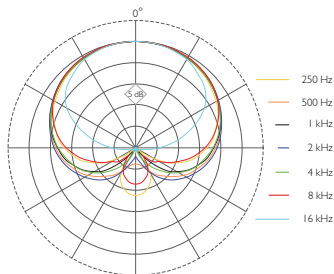
## Gooseneck length

140 mm (5.5 in)

## Capsule diameter

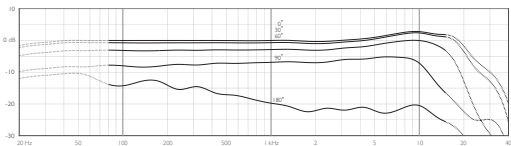
5.4 mm (0.21 in)

## Polar pattern



## Frequency response

Measured at 20 cm (7.9 in)



## Cable and adapter overview

Mic	SPL range	Cable	XLR connection
4099-DC-1-101-A	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
4099-DC-1-201-B	For Loud SPL – up to 142 dB	2.2 mm (0.09 in)	DAD6001-BC
4099-DC-1-201-C	For Loud SPL – up to 142 dB	2.2 mm (0.09 in)	DAD6001-BC
4099-DC-1-101-CM	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
4099-DC-2-201-D	For Extreme SPL – up to 152 dB	2.2 mm (0.09 in)	DAD6001-BC
4099-DC-1-199-G	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD4099-BC
4099-DC-1-101-P	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
4099-DC-1-199-S	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD4099-BC
4099-DC-1-101-SM	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
4099-DC-2-199-T	For Extreme SPL – up to 152 dB	1.6 mm (0.06 in)	DAD4099-BC
4099-DC-1-101-U	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
4099-DC-1-199-V	For Loud SPL – up to 142 dB	1.6 mm (0.06 in)	DAD4099-BC



d:vote™ for Loud SPL

d:vote™ for Extreme SPL

**d:vote™**  
Instrument Microphones

**core**  
by DPA

**Service & repair**

If you are not satisfied with the characteristics exhibited by this product, please go to [dpamicrophones.com/service](http://dpamicrophones.com/service) for instructions.

**Warranty**

d:vote™ 4099 Instrument Microphones are covered by a two-year limited warranty.

**CE marking**

This product conforms to all relevant directives approved by the European Commission.

