



d:vote™ for Extreme SPL

d:vote™ CORE 4099  
Instrument Microphones

**core**  
by DPA

## KIT-4099-DC-10R-C

**Number of microphones**  
**10 microphones**

**Packaging**  
**Carton**

### **Accessories**

**2 un Mic Stand Mount (MS4099)**

**3 un Clamp mount**

**2 un Universal clip**

**4 un Clip for sax**

**2 un Clip for piano**

**1 un Clip for bass**

**6 un Clip for Drum**

**2 un Clip for guitar**

**3 un Clip for violin**

**10 un Adapter for XLR**

**10 un Extension cable, 2.2 mm**



# 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)

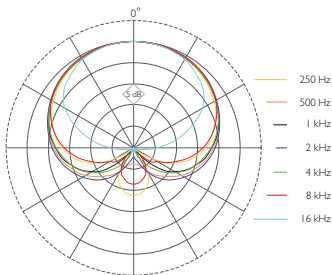
## **Gooseneck length**

140 mm (5.5 in)

## **Capsule diameter**

5.4 mm (0.21 in)

## Polar pattern



## Frequency response

Measured at 20 cm (7.9 in)

