

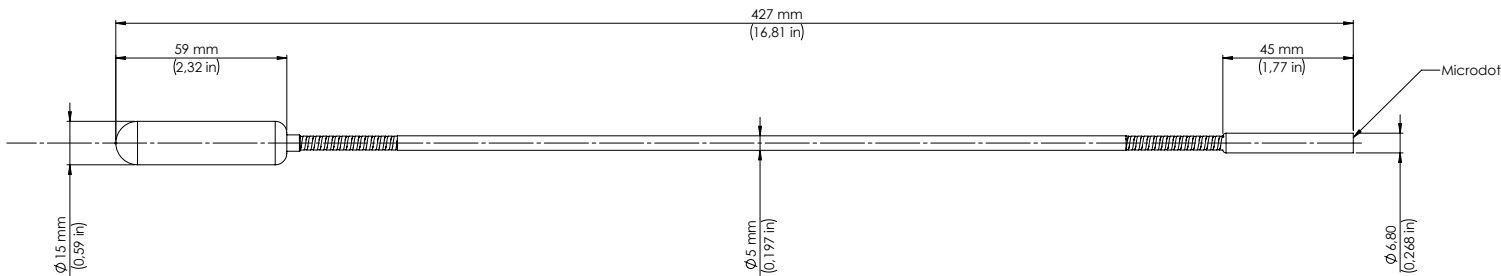


## Type: 4098-DC-G-W00-045

### ARCHITECT SPECIFICATIONS

The microphone shall be a pre-polarized condenser with a supercardioid polar pattern. The off-axis response at 30° and 60° shall have the same shape as the on-axis response. The microphone shall have a sensitivity of 16 mV/Pa (-36 dB re. 1 V/Pa) and an equivalent noise level of 23 dB(A) re. 20 µPa. The microphone shall not exceed 1% THD at 133 dB SPL peak. The diameter of the microphone shall be 15 mm (0.6 in) and the audio connector shall be a MicroDot. A comprehensive adapter program shall be available allowing for connections through wireless belt packs or wired XLR. The operating temperature shall range from -40°C to 45°C (-40°F to 113°F) and the microphone shall function in humidity levels up to 90%. The microphone shall be immune to radio frequency interference (RFI) from cell phones and other wireless equipment. The overall length shall be 43 cm (17 in) and the weight shall be 28 g (1.0 oz). The color shall be matte black.

The microphone shall be the DPA 4098 Supercardioid Microphone type 4098-DC-G-W00-045.



## TECHNICAL SPECIFICATIONS

<b>4098-DC-G-W00-045</b>	
<b>Directional pattern</b>	Supercardioid
<b>Principle of operation</b>	Pressure gradient
<b>Cartridge type</b>	Pre-polarized condenser
<b>Frequency response</b>	20 Hz - 20 kHz
<b>Effective frequency range <math>\pm 2</math> dB, at 20 cm (7.9 in)</b>	80 Hz - 15 kHz with 3 dB soft boost at 8-15 kHz
<b>Sensitivity, nominal, <math>\pm 3</math> dB at 1 kHz</b>	16 mV/Pa; -36 dB re. 1 V/Pa
<b>Equivalent noise level, A-weighted</b>	Typ. 23 dB(A) re. 20 $\mu$ Pa (max. 26 dB(A))
<b>Equivalent noise level, ITU-R BS.468-4</b>	Typ. 35 dB (max. 38 dB)
<b>Distortion, THD &lt; 1%</b>	130 dB SPL RMS, 133 dB SPL peak
<b>Dynamic range</b>	Typ. 110 dB
<b>Max. SPL, THD 10%</b>	135 dB SPL peak
<b>Rated output impedance</b>	From MicroDot: 30 - 40 $\Omega$ . From DAD6001-BC XLR Adapter: 100 $\Omega$
<b>Minimum load impedance</b>	2 k $\Omega$
<b>Cable drive capability</b>	Up to 300 m (984 ft) with DAD6001-BC XLR Adapter
<b>Power supply (for full performance)</b>	MicroDot: Min. 5 V to max. 10 V through DPA adapter for wireless systems or P48 (Phantom Power) with DAD6001-BC XLR adapter
<b>Current consumption</b>	Typ. 1.5 mA (microphone). 3.5 mA with DAD6001-BC XLR Adapter
<b>Connector</b>	MicroDot
<b>Color</b>	White
<b>Microphone length</b>	43 cm (17 in)
<b>Weight</b>	28 g (1.0 oz)
<b>Microphone diameter</b>	5.7 mm (0.22 in)
<b>Polarity</b>	+V at MicroDot pin for positive sound pressure (and pin 2 on DAD6001-BC XLR adapter)
<b>Temperature range</b>	-40°C to 45°C (-40°F to 113°F)
<b>Relative humidity (RH)</b>	Up to 90%