

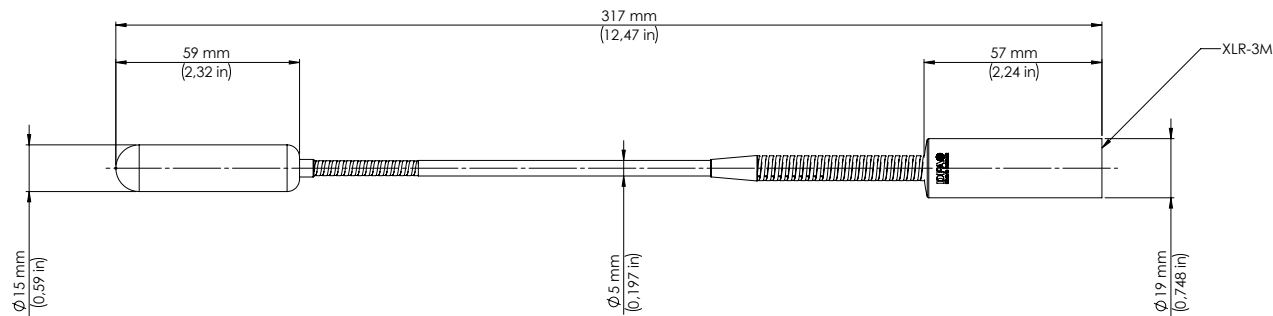


## Type: 4098-DC-G-B01-030

### 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  $\mu$ Pa. 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 an XLR-3M. The microphone shall have an integrated 2nd order low cut filter at 80 Hz. 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 32 cm (13 in) and the weight shall be 80 g (2.8 oz). The color shall be matte black.

The microphone shall be the DPA 4098 Supercardioid Microphone type 4098-DC-G-B01-030.



## TECHNICAL SPECIFICATIONS

<b>4098-DC-G-B01-030</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>	100 Hz - 15 kHz with 3 dB soft boost at 8-15 kHz and permanent 2nd order low-cut filter at 80 Hz
<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>	100 $\Omega$
<b>Minimum load impedance</b>	2 k $\Omega$
<b>Cable drive capability</b>	Up to 100 m (328 ft)
<b>Output balance principle</b>	Signal balanced
<b>Common Mode Rejection Ratio (CMRR)</b>	> 60 dB from 50 Hz to 15 kHz
<b>Power supply (for full performance)</b>	P48 (Phantom Power) - will work from 12 V with decreased high SPL performance
<b>Current consumption</b>	Typ. 3.5 mA
<b>Connector</b>	XLR-3M
<b>Color</b>	Black
<b>Microphone length</b>	32 cm (13 in)
<b>Weight</b>	80 g (2.8 oz)
<b>Microphone diameter</b>	5.7 mm (0.22 in)
<b>Polarity</b>	+V at pin 2 on XLR connector for positive sound pressure
<b>Temperature range</b>	-40°C to 45°C (-40°F to 113°F)
<b>Relative humidity (RH)</b>	Up to 90%