



Type: 4080-DC-D-B03

ARCHITECT SPECIFICATIONS

The directional lavalier microphone shall be a pre-polarized condenser type with a cardioid polar pattern. The microphone shall have an integrated shock mount to absorb unwanted low frequency rumble. The frequency response shall be 20 Hz to 20 kHz with an effective frequency range within ± 2 dB from 250 Hz to 17 kHz and with a 4 dB soft boost at 4-6 kHz measured at 25 cm (9.8 in). The sensitivity shall be 20 mV/Pa (-34 dB re. 1V/Pa) at 1 kHz within a tolerance of ± 3 dB. The equivalent noise level shall be 23 dB(A). The microphone shall not exceed 1% THD at 129 dB SPL peak.

The microphone shall have a dynamic range of 106 dB. The Max. SPL (10 % THD) shall be 134 dB SPL peak. The rated output impedance shall be 30 – 40 Ω and the connector type shall be LEMO 3-pin. The cable length shall be 1.2 m with a cable diameter of 1.6 mm and in black color. The microphone shall be protected against water and dust to an IP58 rating. 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 polarity of the signal on pin 3 shall be positive going for a positively increasing sound pressure.

The microphone shall be the DPA 4080 Cardioid Microphone type 4080-DC-D-B03



TECHNICAL SPECIFICATIONS

4080-DC-D-B03	
Directional pattern	Cardioid
Principle of operation	Pressure gradient
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz
Effective frequency range, ± 2 dB, at 25 cm (9.8 in)	250 Hz - 17 kHz with typ. 4 dB soft boost at 4 - 6 kHz (-5 dB at 100 Hz)
Sensitivity, nominal, ± 3 dB at 1 kHz	20 mV/Pa; -34 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))
Distortion, THD < 1%	126 dB SPL RMS, 129 dB SPL peak
Dynamic range	Typ. 106 dB
Max. SPL, THD 10%	134 dB SPL peak
Rated output impedance	30 - 40 Ω
Power supply (for full performance)	For wireless systems: Min. 5 V - max. 10 V
Current consumption	Typ. 1.5 mA
Connector	3-pin LEMO
Color	Black
Weight	15 g (0.5 oz) incl. Cable and MicroDot connector
Microphone diameter	5.7 mm (0.22 in)
Microphone length	30 mm (1.2 in)
Cable length	1.2 m (3.9 ft)
Polarity	Positively increasing sound pressure produces positive going voltage on LEMO pin 3
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%