

Model Number
377A14

PRECISION CONDENSER MICROPHONE

Revision: G
ECN #: 50697

Performance

	ENGLISH	SI	
Nominal Microphone Diameter	1/4"	1/4"	
Frequency Response Characteristic	Pressure	Pressure	
Open Circuit Sensitivity(± 3 dB)	- 60 dB re 1 V/Pa	- 60 dB re 1 V/Pa	[1]
Open Circuit Sensitivity	1.0 mV/Pa	1.0 mV/Pa	[1]
Frequency Range(± 2 dB)	4 to 70,000 Hz	4 to 70,000 Hz	
Lower Limiting Frequency(- 3 dB)	0.25 to 3.0 Hz	0.25 to 3 Hz	
Resonant Frequency(90° Phase Shift)	65,000 Hz	65,000 Hz	[2]
Inherent Noise	< 35 dB(A) re 20 µPa	< 35 dB(A) re 20 µPa	
Dynamic Range(3% Distortion Limit)	174 dB re 20 µPa	174 dB re 20 µPa	[2]

Environmental

Temperature Range(Operating)	-40 to +248 °F	-40 to +120 °C	
Temperature Coefficient of Sensitivity(+14 to +122°F (-10 to +50°C))	0.004 dB/°F	0.007 dB/°C	[2][1]
Static Pressure Coefficient	-0.003 dB/kPa	-0.003 dB/kPa	[2][1]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.0012 dB/%RH	± 0.0012 dB/%RH	[1]
Influence of Axial Vibration(0.1g (1 m/s ²))	66 dB re 20 µPa	66 dB re 20 µPa	[2]

Electrical

Capacitance(Polarized)	5 pF	5 pF	[2]
Polarization Voltage	0 V	0 V	[3]

Physical

Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Side	Side	
Mounting Thread(Preamplifier)	0.2244 - 60 UNS	5.7 mm - 60 UNS	
Mounting Thread(Grid)	0.25 - 60 UNS	6.35 mm - 60 UNS	
Size (Diameter x Height)(with grid)	0.28 in x 0.41 in	7.0 mm x 10.5 mm	
Size (Diameter x Height)(without grid)	0.25 in x 0.36 in	6.4 mm x 9.1 mm	
Weight	0.06 oz	1.8 gm	[2]

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1]re 250 Hz
- [2]Typical.
- [3]Prepolarized
- [4]See PCB Declaration of Conformance PS167 for details.

SUPPLIED ACCESSORIES:

Model ACS-20 Calibration of Precision Condensor Microphones (1)



Entered: LK	Engineer: SPW	Sales: MV	Approved: AJA	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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