

Model Number 377A13	PRECISION CONDENSER MICROPHONE	Revision: E ECN #: 44518
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Performance	<u>ENGLISH</u>	<u>SI</u>	
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic	Pressure	Pressure	
Open Circuit Sensitivity	12.6 mV/Pa	12.6 mV/Pa	[3]
Open Circuit Sensitivity(± 2 dB)	-38.0 dB re 1 V/Pa	-38.0 dB re 1 V/Pa	[3]
Frequency Range(± 2 dB)	4 to 20,000 Hz	4 to 20,000 Hz	
Lower Limiting Frequency(-3 dB)	1.0 to 3.0 Hz	1.0 to 3.0 Hz	
Resonant Frequency(90° Phase Shift)	18,500 Hz	18,500 Hz	[1]
Inherent Noise	<20 dB(A) re 20 µPa	<20 dB(A) re 20 µPa	
Dynamic Range(3% Distortion Limit)	>155 dB re 20 µPa	>155 dB re 20 µPa	
Standards Designation(IEC 61094-4)	WS2P	WS2P	
Environmental			
Temperature Range(Operating)	-40 to +248 °F	-40 to +120 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.004 dB/°F	0.008 dB/°C	[1][3]
Static Pressure Coefficient	-0.005 dB/kPa	-0.005 dB/kPa	[1][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.001 dB/%RH	± 0.001 dB/%RH	[3]
Influence of Axial Vibration(0.1g (1 m/s ²))	66 dB re 20 µPa	66 dB re 20 µPa	[1]
Electrical			
Capacitance(Polarized)	14 pF	14 pF	[1]
Polarization Voltage	0 V	0 V	[2]
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	
Mounting Thread(Preamplifier)	0.4606 - 60 UNS	11.7 mm - 60 UNS	
Mounting Thread(Grid)	0.5 - 60 UNS	12.7 mm - 60 UNS	
Size (Diameter x Height)(with grid)	0.52 in x 0.53 in	13.2 mm x 13.4 mm	
Size (Diameter x Height)(without grid)	0.5 in x 0.48 in	12.7 mm x 12.2 mm	
Weight	0.23 oz	6.5 gm	[1]

*All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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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]Typical.
 [2]Prepolarized
 [3]re 250 Hz

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

Entered: JM	Engineer: NJL	Sales: DR	Approved: MT	Spec Number:
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