

Model Number <b>377A06</b>	<b>PRECISION CONDENSER MICROPHONE</b>	Revision: B ECN #: 47338
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic(at 0° incidence)	Free-Field	Free-Field	
Open Circuit Sensitivity(at 250 Hz)	12.6 mV/Pa	12.6 mV/Pa	[3]
Open Circuit Sensitivity(± 2 dB)(at 250 Hz))	-38 dB re 1 V/Pa	-38 dB re 1 V/Pa	[3]
Frequency Range(± 3 dB)	3.15 to 40,000 Hz	3.15 to 40,000 Hz	
Frequency Range(± 2 dB)	3.15 to 31,500 Hz	3.15 to 31,500 Hz	
Frequency Range(± 1 dB)	5 to 16,000 Hz	5 to 16,000 Hz	
Lower Limiting Frequency(-3 dB)	1 to 2.4 Hz	1 to 2.4 Hz	
Resonant Frequency(90° Phase Shift)	29 kHz	29 kHz	[1]
Inherent Noise	20 dB(A)	20 dB(A)	[1]
Dynamic Range(3% Distortion Limit)	162 dB re 20 µPa	162 dB re 20 µPa	[3][1]
<b>Environmental</b>			
Temperature Range(Operating)	-40 to +248 °F	-40 to +120 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.003 dB/°F	0.006 dB/°C	[1][3]
Static Pressure Coefficient	-0.007 dB/kPa	-0.007 dB/kPa	[1][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.002 dB/%RH	± 0.002 dB/%RH	[3][1]
Influence of Axial Vibration(0.1g (1 m/s <sup>2</sup> ))	66 dB re 20 µPa	66 dB re 20 µPa	[1]
<b>Electrical</b>			
Capacitance(Polarized)	14 pF	14 pF	[1]
Polarization Voltage	0 V	0 V	[2]
<b>Physical</b>			
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 0.50 in	13.2 mm x 12.7 mm	
Size (Diameter x Height)(without grid)	0.50 in x 0.46 in	12.7 mm x 11.8 mm	
Weight	0.23 oz	6.5 gm	[1]

**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  
 [4] See PCB Declaration of Conformance PS167 for details.

**SUPPLIED ACCESSORIES:**

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

Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
Date: 10/20/2017	Date: 10/20/2017	Date: 10/20/2017	Date: 10/20/2017	<b>58152</b>



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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