

Model Number <b>378B02</b>	<b>ICP MICROPHONE SYSTEM</b>	Revision: F 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	
Sensitivity	50 mV/Pa	50 mV/Pa	[3]
Sensitivity(± 1.5 dB)	-26 dB re 1 V/Pa	-26 dB re 1 V/Pa	[3]
Frequency Range(± 2 dB)	3.75 to 20,000 Hz	3.75 to 20,000 Hz	
Frequency Range(± 1 dB)	7 to 10,000 Hz	7 to 10,000 Hz	
Lower Limiting Frequency(-3 dB)	1.0 to 3.0 Hz	1.0 to 3.0 Hz	
Inherent Noise	15.5 dB(A) re 20 µPa	15.5 dB(A) re 20 µPa	[2]
Dynamic Range(3% Distortion Limit)	137 dB re 20 µPa	137 dB re 20 µPa	[2]
TEDS Compliant	Yes	Yes	[4]
<b>Environmental</b>			
Temperature Range(Operating)	-40 to +176 °F	-40 to +80 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.005 dB/°F	0.009 dB/°C	[2][3]
Static Pressure Coefficient	-0.013 dB/kPa	-0.013 dB/kPa	[2][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 <sup>2</sup> ))	63 dB re 20 µPa	63 dB re 20 µPa	[2]
<b>Electrical</b>			
Polarization Voltage	0 V	0 V	[1]
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Bias Voltage	10 to 14 VDC	10 to 14 VDC	
Maximum Output Voltage	± 7 Vpk	± 7 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	
<b>Physical</b>			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	[5]
Electrical Connector	BNC Jack	BNC Jack	
Mounting Thread(Grid)	0.5 - 60 UNS	0.5 - 60 UNS	
Size (Diameter x Height)(with grid)	0.52 in x 3.62 in	13.2 mm x 91.9 mm	
Size (Diameter x Height)(without grid)	0.50 in x 3.58 in	12.7 mm x 90.9 mm	
Weight	1.63 oz	45.8 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] Pre-polarized  
 [2] Typical.  
 [3] re 250 Hz  
 [4] TEDS Capable Digital Communication, compliant with IEEE 1451.4  
 [5] Venting through Preamp.  
 [6] See PCB Declaration of Conformance PS064 for details.

**SUPPLIED ACCESSORIES:**

Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)

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All specifications are at room temperature unless otherwise specified.  
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