

Model Number 378A07	ICP INFRASOUND MICROPHONE SYSTEM	Revision: D ECN #: 47338
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic(at 0° incidence)	Free-Field	Free-Field	
Sensitivity	5.8 mV/Pa	5.8 mV/Pa	[3]
Sensitivity(± 1.5 dB)	-44.7 dB re 1 V/Pa	-44.7 dB re 1 V/Pa	[3]
Frequency Range(± 2 dB)	0.13 to 20,000 Hz	0.13 to 20,000 Hz	
Frequency Range(± 1 dB)	0.25 to 10,000 Hz	0.25 to 10,000 Hz	
Lower Limiting Frequency(-3 dB)	<0.1 Hz	<0.1 Hz	
Inherent Noise	20 dB(A) re 20 µPa	20 dB(A) re 20 µPa	[2]
Dynamic Range(3% Distortion Limit)	136 dB re 20 µPa	136 dB re 20 µPa	[2]
TEDS Compliant	Yes	Yes	[4]
Environmental			
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	-0.01 dB/kPa	-0.01 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 ²))	63 dB re 20 µPa	63 dB re 20 µPa	[2]
Electrical			
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	
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	
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 4.29 in	13.2 mm x 109.0 mm	
Size (Diameter x Height)(without grid)	0.50 in x 4.25 in	12.7 mm x 108.0 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] Prepolarized
 [2] Typical.
 [3] re 250 Hz
 [4] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4
 [5] See PCB Declaration of Conformance PS064 for details.

SUPPLIED ACCESSORIES:

Model 079A43 Low-Frequency Adaptor (1)
 Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)

Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
Date: 10/17/2017	Date: 10/17/2017	Date: 10/17/2017	Date: 10/17/2017	59960



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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