

Model Number 378A14	ICP MICROPHONE SYSTEM	Revision: F ECN #: 49377
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/4"	1/4"	
Frequency Response Characteristic	Pressure	Pressure	
Sensitivity	1.0 mV/Pa	1.0 mV/Pa	[3]
Sensitivity(± 3 dB)	-60 dB re 1 V/Pa	-60 dB re 1 V/Pa	[3]
Frequency Range(± 2 dB)	4.0 to 70,000 Hz	4.0 to 70,000 Hz	
Lower Limiting Frequency(-3 dB)	0.75 to 4.0 Hz	0.75 to 4.0 Hz	
Inherent Noise	50 dB(A) re 20 µPa	50 dB(A) re 20 µPa	[2][4]
Dynamic Range(3% Distortion Limit)	173 dB re 20 µPa	173 dB re 20 µPa	[2]
TEDS Compliant	Yes	Yes	[5]
Environmental			
Temperature Range(Operating)	-40 to +158 °F	-40 to +70 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.004 dB/°F	0.007 dB/°C	[2][3]
Static Pressure Coefficient	-0.003 dB/kPa	-0.003 dB/kPa	[2][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.0014 dB/%RH	± 0.0014 dB/%RH	[3]
Influence of Axial Vibration(0.1g (1 m/s ²))	66 dB re 20 µPa	66 dB re 20 µPa	[2]
Electrical			
Polarization Voltage	0 V	0 V	[1]
Excitation Voltage	20 to 32 VDC	20 to 32 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	± 8 Vpk	± 8 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Side	Side	
Electrical Connector	10-32 Jack	10-32 Jack	
Mounting Thread(Preamplifier)	0.25 - 60 UNS	0.25 - 60 UNS	
Size (Diameter x Height)(with grid)	0.28 in x 2.07 in	7.1 mm x 52.6 mm	
Size (Diameter x Height)(without grid)	0.25 x 2.02 in	6.35 mm x 51.3 mm	
Weight	0.27 oz	7.8 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] A-Weighted inherent noise is specified from 20 Hz - 20 kHz.
 [5] TEDS Capable Digital Communication, compliant with IEEE 1451.4
 [6] See PCB Declaration of Conformance PS076 for details.

SUPPLIED ACCESSORIES:

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

Entered: LK	Engineer: MJN	Sales: MV	Approved: NJF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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PCB PIEZOTRONICS™

3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001
 Fax: 716-684-0987
 E-Mail: info@pcb.com