

Model Number 378A14	ICP MICROPHONE SYSTEM	Revision: C ECN #: 44801
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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(Linear)	<60 dB re 20 µPa	<60 dB re 20 µPa	
Inherent Noise	<53 dB(A) re 20 µPa	<53 dB(A) re 20 µPa	
Dynamic Range(3% Distortion Limit)	>174 dB re 20 µPa	>174 dB re 20 µPa	
TEDS Compliant	Yes	Yes	[4]
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	± 0.0014	[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.

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4
Optional Accessory : Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1) replaces Model ACS-42

NOTES:

[1]Prepolarized
[2]Typical.
[3]re 250 Hz
[4]TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4
[5]See PCB Declaration of Conformance PS076 for details.

SUPPLIED ACCESSORIES:
Model ACS-42 Calibration of microphone with preamplifier (1)

Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
Date: 12/3/2015	Date: 12/3/2015	Date: 12/3/2015	Date: 12/3/2015	57858



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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PCB PIEZOTRONICS™
3425 Walden Avenue, Depew, NY 14043

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