



Model Number 378A14	ICP MICROPHONE SYSTEM		Revision: E ECN #: 45005
Performance	ENGLISH	SI	OPTIONAL VERSIONS
Nominal Microphone Diameter	1/4"	1/4"	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
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	
Frequency Range(± 2 dB)	4.0 to 70,000 Hz	4.0 to 70,000 Hz	[3]
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			NOTES:
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/s²))	66 dB re 20 µPa	66 dB re 20 µPa	[2]
Electrical			[1]
Polarization Voltage	0 V	0 V	
Excitation Voltage	20 to 32 VDC	20 to 32 VDC	[1]
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Bias Voltage	10 to 14 VDC	10 to 14 VDC	[1]
Maximum Output Voltage	± 8 Vpk	± 8 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	[1]
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	[1]
Venting	Side	Side	
Electrical Connector	10-32 Jack	10-32 Jack	[1]
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	[1]
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]
 [6]			
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. ICP® is a registered trademark of PCB Group, Inc.			
Entered: LK Engineer: MT Sales: MV Approved: MT Spec Number: Date: 10/13/2016 Date: 10/13/2016 Date: 10/13/2016 Date: 10/13/2016 57858			SUPPLIED ACCESSORIES: Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)
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