

Model Number 378A04		ICP LOW NOISE MICROPHONE SYSTEM		Revision: F ECN #: 47965		
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Nominal Microphone Diameter		1/2"	1/2"	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(at 0° incidence)		Free-Field	Free-Field			
Sensitivity		450 mV/Pa	450 mV/Pa			[2]
Sensitivity(± 2 dB)		-7 dB re 1 V/Pa	-7 dB re 1 V/Pa			[2]
Frequency Range(± 4 dB)		5 to 20,000 Hz	5 to 20,000 Hz			
Frequency Range(± 2 dB)		10 to 16,000 Hz	10 to 16,000 Hz			
Lower Limiting Frequency(-3 dB)		2 to 5 Hz	2 to 5 Hz			
Inherent Noise		5.5 dB(A) re 20 μPa	5.5 dB(A) re 20 μPa			[3]
Inherent Noise		<6.5 dB(A) re 20 μPa	<6.5 dB(A) re 20 μPa			
Dynamic Range(3% Distortion Limit)		>80 dB re 20 μPa	>80 dB re 20 μPa			[4]
Dynamic Range(3% Distortion Limit)		>100 dB re 20 μPa	>100 dB re 20 μPa	[5]		
Maximum Sound Pressure Level(Peak)		130 dB re 20 μPa	130 dB re 20 μPa	[6][3]		
TEDS Compliant		Yes	Yes	[7]		
Environmental				NOTES: [1] Prepolarized [2] re 1 kHz [3] Typical. [4] In the total frequency range. [5] Below 5 kHz [6] Non-destructive [7] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4 [8] Venting through Preamp. [9] Protection grid permanently affixed to the microphone. [10] See PCB Declaration of Conformance PS138 for details.		
Temperature Range(Operating)		-40 to +176 °F	-40 to +80 °C			[2][3]
Temperature Coefficient of Sensitivity(+14 to +122°F (-10 to +50°C))		0.005 dB/°F	0.009 dB/°C			[2][3]
Static Pressure Coefficient		-0.013 dB/kPa	-0.013 dB/kPa			[2]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)		± 0.001 dB/%RH	± 0.001 dB/%RH			
Electrical						
Polarization Voltage		0 V	0 V			[1]
Excitation Voltage		20 to 32 VDC	20 to 32 VDC			
Constant Current Excitation		4 to 20 mA	4 to 20 mA			
Output Bias Voltage		12 to 16 VDC	12 to 16 VDC			
Maximum Output Voltage		± 2 Vpk	± 2 Vpk			
Output Impedance		<50 Ohm	<50 Ohm			
Physical				SUPPLIED ACCESSORIES: Model ACS-156 Calibration of microphone with preamplifier in an anechoic chamber to include noise floor verification (1)		
Housing Material		Stainless Alloy	Stainless Alloy			
Venting		Rear	Rear			[8]
Electrical Connector		BNC Jack	BNC Jack			
Size (Diameter x Height)(with grid)		0.52 in x 4.02 in	13.2 mm x 102.1 mm			
Size (Diameter x Height)(without grid)		0.50 in x 3.99 in	12.7 mm x 101.2 mm			[9]
Weight		1.81 oz	51.3 gm			[3]
 [10]						
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.						
		 3425 Walden Avenue, Depew, NY 14043		Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com		