

Model Number 378C10		ICP MICROPHONE SYSTEM			Revision: H ECN #: 49878
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		
Sensitivity(± 3 dB)		- 60 dB re 1 V/Pa	- 60 dB re 1 V/Pa		
Frequency Range(± 2 dB)		5 to 70,000 Hz	5 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		
Dynamic Range(3% Distortion Limit)		173 dB re 20 µPa	173 dB re 20 µPa		
TEDS Compliant		Yes	Yes		
Environmental					
Temperature Range(Operating)		-40 to +176 °F	-40 to +80 °C		
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))		0.004 dB/°F	0.007 dB/°C		
Static Pressure Coefficient		- 0.003 dB/kPa	- 0.003 dB/kPa		
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)		± 0.0014 dB/%RH	± 0.0014 dB/%RH		
Influence of Axial Vibration(0.1g (1 m/s²))		66 dB re 20 µPa	66 dB re 20 µPa		
Electrical					
Polarization Voltage		0 V	0 V		
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		Rear	Rear		
Electrical Connector		10-32 Jack	10-32 Jack		
Mounting Thread(Grid)		0.25 - 60 UNS	0.25 - 60 UNS		
Size - Diameter(with grid)		0.28 in	7.1 mm		
Size - Diameter(without grid)		0.25 in	6.35 mm		
Size - Height(with grid)		2.07 in	52.6 mm		
Size - Height(without grid)		2.02 in	51.3 mm		
Weight		0.27 oz	7.8 gm		
				NOTES:	
				[1]re 250 Hz	
				[2]A-Weighted inherent noise is specified from 20 Hz - 20 kHz.	
				[3]Typical.	
				[4]TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4	
				[5]Limited to 70°C if ICP current > 10mA	
				[6]Prepolarized	
				[7]Venting through Preamp.	
				[8]See PCB Declaration of Conformance PS167 and PS076 for details.	
				SUPPLIED ACCESSORIES:	
				Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)	
		Entered: Ink	Engineer: MJN	Sales: MV	Approved: BAM
		Date: 08/21/2019	Date: 08/21/2019	Date: 08/21/2019	Date: 08/21/2019
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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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