

Model Number 378A21	ICP MICROPHONE SYSTEM	Revision: C ECN #: 45005
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic	Random Incidence	Random Incidence	
Sensitivity	12.6 mV/Pa	12.6 mV/Pa	[3]
Sensitivity(± 2 dB)	-38 dB re 1 V/Pa	-38 dB re 1 V/Pa	[3]
Frequency Range(± 2 dB)	4 to 25,000 Hz	4 to 25,000 Hz	
Lower Limiting Frequency(-3 dB)	1.0 to 2.4 Hz	1.0 to 2.4 Hz	
Inherent Noise	22 dB(A) re 20 µPa	22 dB(A) re 20 µPa	[2]
Dynamic Range(3% Distortion Limit)	150 dB re 20 µPa	150 dB re 20 µPa	[2]
TEDS Compliant	Yes	Yes	[4]
Environmental			
Temperature Range(Operating)	-40 to +176 °F	-40 to +80 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.003 dB/°F	0.006 dB/°C	[2][3]
Static Pressure Coefficient	-0.007 dB/kPa	-0.007 dB/kPa	[2][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	0.002 dB/%RH	0.002 dB/%RH	[3][2]
Influence of Axial Vibration(0.1g (1 m/s ²))	67 dB re 20 µPa	67 dB re 20 µPa	[2]
Electrical			
Polarization Voltage	0 V	0 V	[1]
Excitation Voltage	20 to 30 VDC	20 to 30 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	± 7 Vpk	± 7 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	[5]
Electrical Connector	BNC Jack	BNC Jack	
Mounting Thread(Grid)	0.5 - 60 UNS	0.5 - 60 UNS	
Size (Diameter x Height)(with grid)	0.52 in x 3.47 in	13.2 mm x 88.3 mm	
Size (Diameter x Height)(without grid)	0.50 in x 3.46 in	12.7 x 87.8 mm	
Weight	1.59 oz	45 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] TEDS Capable Digital Communication, compliant with IEEE 1451.4
 [5] Venting through Preamp.
 [6] See PCB Declaration of Conformance PS064 for details.

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



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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Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
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