Model Number 379A12	RUGGED ICP® MICROPHONE SYSTEM	Revision: NR ECN #: 50886

Performance	ENGLISH	SI	
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic(at 0° incidence)	Free-Field	Free-Field	
Sensitivity(± 1.5 dB)	- 26 dB re 1 V/Pa	- 26 dB re 1 V/Pa	[1]
Sensitivity	50 mV/Pa	50 mV/Pa	[1]
Frequency Range(± 2 dB)	3.75 to 20,000 Hz	3.75 to 20,000 Hz	[2]
Frequency Range(± 1 dB)	7 to 10,000 Hz	7 to 10,000 Hz	[2]
Frequency Range(± 2 dB)	3.75 to 20,000 Hz	3.75 to 20,000 Hz	[3]
Frequency Range(± 1 dB)	7 to 4,000 Hz	7 to 4,000 Hz	[3]
Lower Limiting Frequency(- 3 dB)	1.0 to 3.0 Hz	1.0 to 3.0 Hz	
Inherent Noise	15.5 dB(A) re 20 µPa	15.5 dB(A) re 20 µPa	[4]
Dynamic Range(3% Distortion Limit)	137 dB re 20 µPa	137 dB re 20 µPa	[4]
TEDS Compliant	Yes	Yes	[5]
Environmental			
Temperature Range(Operating)	-40 to +176 °F	-40 to +80 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.005 dB/°F	0.009 dB/°C	[4][1]
Static Pressure Coefficient	- 0.013 dB/kPa	- 0.013 dB/kPa	[4][1]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.001 dB/%RH	± 0.001 dB/%RH	[1]
Influence of Axial Vibration(0.1g (1 m/s²))	63 dB re 20 µPa	63 dB re 20 µPa	[4]
Electrical			
Polarization Voltage	0 V	0 V	[6]
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	[7]
Electrical Connector	BNC Jack	BNC Jack	
Mounting Thread(Grid)	0.5 - 60 UNS	0.5 - 60 UNS	
Size (Diameter x Height)(with standard grid)	0.52 in x 3.62 in	13.2 mm x 91.9 mm	[2]
Size (Diameter x Height)(with rugged grid)	0.57 in x 3.62 in	14.5 mm x 91.9 mm	[3]
Size (Diameter x Height)(without grid)	0.50 in x 3.58 in	12.7 mm x 90.9 mm	
Weight	1.63 oz	45.8 gm	[2][4]
Weight	1.72 oz	48.7 gm	[3][4]

CE[8]

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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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]re 250 Hz
[2]Standard Grid Cap Installed
[3]Rugged Grid Cap Installed
[4]Typical.
[5]TEDS Capable Digital Communication, compliant with IEEE 1451.4
[6]Prepolarized
[7]Venting through Preamp.
[8]See PCB Declaration of Conformance PS064 for details.

SUPPLIED ACCESSORIES:

Model 079A52 Rugged Grid Cap for 1/2" Microphones (1)
Model 079A59 Calibration Adapter for Rugged Grid Cap (1)
Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)

Entered: LK	Engineer: MJN	Sales: MV	Approved: NJF	Spec Number:
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PCB PIEZOTRONICS
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com
3425 Walden Avenue, Depew, NY 14043