

Model Number 378A04	ICP LOW NOISE MICROPHONE SYSTEM	Revision: F ECN #: 47965
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
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			
Temperature Range(Operating)	-40 to +176 °F	-40 to +80 °C	
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][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.001 dB/%RH	± 0.001 dB/%RH	[2]
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			
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]

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] 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.

SUPPLIED ACCESSORIES:

Model ACS-156 Calibration of microphone with preamplifier in an anechoic chamber to include noise floor verification (1)

Entered: LK	Engineer: MJN	Sales: MV	Approved: NJF	Spec Number:
Date: 3/8/2018	Date: 3/8/2018	Date: 3/8/2018	Date: 3/8/2018	60614



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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