

Model Number
378A08

ICP® LOW NOISE 1/4" MICROPHONE SYSTEM

Revision: NR
ECN #: 55015

Performance	ENGLISH	SI	
Nominal Microphone Diameter	1/4"	1/4"	
Frequency Response Characteristic(at 0° incidence)	Free-Field	Free-Field	
Sensitivity(± 2 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)	12 to 20,000 Hz	12 to 20,000 Hz	
Frequency Range(± 1 dB)	20 to 10,000 Hz	20 to 10,000 Hz	
Frequency Range(± 5 dB)(Random Incidence)	5 to 20,000 Hz	5 to 20,000 Hz	
Frequency Range(± 2 dB)(Random Incidence)	12 to 10,000 Hz	12 to 10,000 Hz	
Lower Limiting Frequency(- 3 dB)	5 to 10 Hz	5 to 10 Hz	
Inherent Noise	22 dB(A) re 20 µPa	22 dB(A) re 20 µPa	[2][3]
Inherent Noise	≤ 25 dB(A) re 20 µPa	≤ 25 dB(A) re 20 µPa	[3]
Dynamic Range(3% Distortion Limit)	123 dB re 20 µPa	123 dB re 20 µPa	[2]
TEDS Compliant	Yes	Yes	[4]
Environmental			
Temperature Range(Operating)	-4 to +140 °F	-20 to +60 °C	
Temperature Coefficient of Sensitivity	0.006 dB/°F	0.01 dB/°C	[2][1]
Static Pressure Coefficient	- 0.01 dB/kPa	- 0.01 dB/kPa	[2][1]
Humidity Coefficient of Sensitivity(0 to 90%, non-condensing)	± 0.005 dB/%RH	± 0.005 dB/%RH	[1]
Influence of Axial Vibration(0.1g (1 m/s ²))	60 dB re 20 µPa	60 dB re 20 µPa	[2]
Electrical			
Polarization Voltage	0 V	0 V	[5]
Excitation Voltage	20 to 32 VDC	20 to 32 VDC	
Constant Current Excitation	4 to 20 mA	4 to 20 mA	
Output Bias Voltage	15 to 16.5 VDC	15 to 16.5 VDC	
Maximum Output Voltage	± 2.25 Vpk	± 2.25 Vpk	
Output Impedance	< 100 Ohm	< 100 Ohm	
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	[6]
Electrical Connector	10-32 Jack	10-32 Jack	
Mounting Thread(Grid)	No English Equivalent	M6.5x0.3 – 4g	
Size (Diameter x Height)(with grid)	0.28 in x 3.13 in	7.0 mm x 79.6 mm	
Size (Diameter x Height)(without grid)	0.28 in x 3.09 in	7.0 mm x 78.4 mm	
Weight	0.42 oz	12.0 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]re 250 Hz
- [2]Typical.
- [3]A-Weighted inherent noise is specified from 20 Hz - 20 kHz.
- [4]TEDS Capable Digital Communication, compliant with IEEE 1451.4
- [5]Prepolarized
- [6]Venting through Preamp.
- [7]See PCB Declaration of Conformance PS138 for details.

SUPPLIED ACCESSORIES:

Model ACS-187 Calibration (with TEDS) of precision condenser microphone and preamplifier to include noise floor verification.

Entered: ND	Engineer: JN	Sales: MV	Approved: NJF	Spec Number:
Date: 07/01/2024	Date: 07/01/2024	Date: 07/01/2024	Date: 07/01/2024	76523



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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