

Model Number 376C01	ICP MICROPHONE SYSTEM	Revision: NR ECN #: 49510
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/4"	1/4"	
Frequency Response Characteristic(at 0° incidence)	Free-Field	Free-Field	
Sensitivity	2.0 mV/Pa	2.0 mV/Pa	[3]
Sensitivity(± 3 dB)	-54 dB re 1 V/Pa	-54 dB re 1 V/Pa	[3]
Frequency Range(+2 / -3 dB)	4 to 100,000 Hz	4 to 100,000 Hz	
Frequency Range(± 2 dB)	5 to 80,000 Hz	5 to 80,000 Hz	
Frequency Range(± 1 dB)	7 to 12,500 Hz	7 to 12,500 Hz	
Lower Limiting Frequency(-3 dB)	0.75 to 4.0 Hz	0.75 to 4.0 Hz	
Inherent Noise	42 dB(A) re 20 µPa	42 dB(A) re 20 µPa	[4][2]
Dynamic Range(3% Distortion Limit)	165 dB re 20 µPa	165 dB re 20 µPa	[2]
TEDS Compliant	Yes	Yes	[5]
Environmental			
Temperature Range(Operating)	-40 to +158 °F	-40 to +70 °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	-0.009 dB/kPa	-0.009 dB/kPa	[2][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± 0.0014 dB/%RH	± 0.0014 dB/%RH	[3]
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	[1]
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	[6]
Electrical Connector	10-32 Jack	10-32 Jack	
Mounting Thread(Grid)	0.25 - 60 UNS	0.25 - 60 UNS	
Size (Diameter x Height)(with grid)	0.28 in x 1.51 in	7.1 mm x 38.3 mm	
Size (Diameter x Height)(without grid)	0.25 x 1.46 in	6.35 x 37.1 mm	
Weight	0.19 oz	5.4 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] A-Weighted inherent noise is specified from 20 Hz - 20 kHz.
 [5] TEDS Capable Digital Communication, compliant with IEEE 1451.4
 [6] Venting through Preamp.
 [7] 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)



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: MJN	Sales: MV	Approved: NJF	Spec Number:
Date: 5/14/2019	Date: 5/14/2019	Date: 5/14/2019	Date: 5/14/2019	71514

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