

Model Number 377A21	PRECISION CONDENSER MICROPHONE	Revision: C ECN #: 47338
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic(at 0° incidence)	Random Incidence	Random Incidence	
Open Circuit Sensitivity(at 250 Hz)	12.6 mV/Pa	12.6 mV/Pa	[3]
Open Circuit Sensitivity(± 2 dB)(at 250 Hz)	-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 to 2.4 Hz	1 to 2.4 Hz	
Resonant Frequency(90° Phase Shift)	21,800 kHz	21,800 kHz	[1]
Inherent Noise	20 dB(A) re 20 µPa	20 dB(A) re 20 µPa	[1]
Dynamic Range(3% Distortion Limit)	162 dB re 20 µPa	162 dB re 20 µPa	[3][1]
Environmental			
Temperature Range(Operating)	-40 to +248 °F	-40 to +120 °C	
Temperature Coefficient of Sensitivity(+14 to +122°F (-10 to +50°C))	.003 dB/°F	.006 dB/°C	[1][3]
Static Pressure Coefficient	-.004 dB/kPa	-.004 dB/kPa	[1][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	± .002 dB/%RH	± .002 dB/%RH	[1][3]
Influence of Axial Vibration(0.1g (1 m/s ²))	67 dB re 20 µPa	67 dB re 20 µPa	[1]
Electrical			
Capacitance(Polarized)	14 pF	14 pF	[1]
Polarization Voltage	0 V	0 V	[2]
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	
Mounting Thread(Preamplifier)	0.4606 - 60 UNS	11.7 mm - 60 UNS	
Mounting Thread(Grid)	0.5 - 60 UNS	12.7 mm - 60 UNS	
Size (Diameter x Height)(with grid)	0.52 in x 0.50 in	13.2 mm x 12.7 mm	
Size (Diameter x Height)(without grid)	0.50 in x 0.46 in	12.7 mm x 11.8 mm	
Weight	0.23 oz	6.5 gm	[1]

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] Typical.
 [2] Prepolarized
 [3] re 250 Hz
 [4] See PCB Declaration of Conformance PS167 for details.

SUPPLIED ACCESSORIES:

Model ACS-20 Calibration of Precision Condensator Microphones (1)

Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
Date: 10/17/2017	Date: 10/17/2017	Date: 10/17/2017	Date: 10/17/2017	37266



All specifications are at room temperature unless otherwise specified.
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