

Model Number 377B20	PRECISION CONDENSER MICROPHONE	Revision J ECN #: 42003
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Performance	ENGLISH	SI	
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic	Random Incidence	Random Incidence	
Open Circuit Sensitivity (at 250 Hz)	50 mV/Pa	50 mV/Pa	
Open Circuit Sensitivity (±1.5 dB) (at 250 Hz)	-26 dB re 1 V/Pa	-26 dB re 1 V/Pa	
Frequency Range (±1 dB)	5 to 6300 Hz	5 to 6300 Hz	
Frequency Range (±2 dB)	3.15 to 12500 Hz	3.15 to 12500 Hz	
Lower Limiting Frequency (-3 dB)	1 to 2.4 Hz	1 to 2.4 Hz	
Resonant Frequency (90° Phase Shift)	12 kHz	12 kHz	[1]
Dynamic Range (3% Distortion Limit)	>144 dB re 20 µPa	>144 dB re 20 µPa	
Dynamic Range (Cartridge Thermal Noise)	<15 dB(A) re 20 µPa	<15 dB(A) re 20 µPa	
Standards Designation (IEC 651)	Type 1	Type 1	[4]
Environmental			
Temperature Range (Operating)	-40 to +248 °F	-40 to +120 °C	
Temperature Coefficient of Sensitivity (+14 to +122°F (-10 to +50°C))	0.005 dB/°F	0.009 dB/°C	[1][3]
Static Pressure Coefficient (at 250 Hz)	-0.01 dB/kPa	-0.01 dB/kPa	[1]
Influence of Humidity (0 to 100%, non-condensing)	-0.1 to 0.1 dB	-0.1 to 0.1 dB	[3]
Influence of Axial Vibration (0.1g (1 m/s ²))	63 dB re 20 µPa	63 dB re 20 µPa	[1]
Electrical			
Capacitance (Polarized)	11 pF	11 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) (with grid)	0.52 in	13.2 mm	
Size (Diameter) (without grid)	0.5 in	12.7 mm	
Size (Height) (with grid)	0.64 in	16.2 mm	
Size (Height) (without grid)	0.6 in	15.3 mm	
Weight	0.28 oz	7.8 gm	[1]


Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Notes
 [1] Typical.
 [2] Prepolarized
 [3] re 1 kHz
 [4] The microphone uses 50% to 70% of the frequency tolerances allowed by this standard.

Supplied Accessories
 ACS-20 Calibration of Precision Condenser Microphones (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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