Audio Precision 378M32 Measurement Microphone System

Complete Specifications

	ENGLISH	SI	Note
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic (at 0° incidence)	Free-Field	Free-Field	
Sensitivity	12.6 mV/Pa	12.6 mV/Pa	[3]
Sensitivity (± 1.5 dB)	-38 dB re 1 V/Pa	-38 dB re 1 V/Pa	[3]
Frequency Range (± 1 dB)	5 Hz to 16 kHz	5 Hz to 16 kHz	
Frequency Range (± 2 dB)	3.15 Hz to 31.5 kHz	3.15 Hz to 31.5 kHz	
Frequency Range (± 3 dB)	3.15 Hz to 40 kHz	3.15 Hz to 40 kHz	
Lower Limiting Frequency (–3 dB)	1.0 to 2.4 Hz	1.0 to 2.4 Hz	
Inherent Noise	22 dBA re 20 μPa	22 dBA re 20 μPa	[2]
Dynamic Range (3% Distortion Limit)	150 dB re 20 μPa	150 dB re 20 μPa	[2]
TEDS Compliant	Yes	Yes	[4]
Environmental			
Temperature Range (Operating)	-40 to +176 °F	-40 to +80 °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	-0.007 dB/kPa	-0.007 dB/kPa	[2][3
Humidity Coefficient of Sensitivity (0 to 100%, non-condensing)	± 0.002 dB/%RH	± 0.002 dB/%RH	[3][2
Influence of Axial Vibration (0.1g (1 m/s²))	66 dB re 20 μPa	66 dB re 20 μPa	[2]
 lectrical			
Polarization Voltage	0 V	0 V	[1]
Excitation Voltage	20 to 30 VDC	20 to 30 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	± 7 Vpk	± 7 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	
hysical			
Housing Material	Stainless Steel	Stainless Steel	
Venting	Rear	Rear	[5]
Electrical Connector	BNC Jack	BNC Jack	
Mounting Thread (Grid)	0.5 - 60 UNS	0.5 - 60 UNS	
Size (Diameter x Length) (with grid)	0.52 in x 3.47 in	13.2 mm x 88.3 mm	
Size (Diameter x Length) (without grid)	0.50 in x 3.46 in	12.7 mm x 87.8 mm	
Weight	1.59 oz.	45 gm	[2]
lotes			
[1] Prepolarized			
[2] Typical			
[3] re 250 Hz			
[4] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4			
[5] Venting through Preamp			

VII1201090103

