

Performance

	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 50 g pk	± 490 m/s ² pk	
Frequency Range(± 5 %)	1.0 to 8000 Hz	1.0 to 8000 Hz	
Frequency Range(± 10 %)	0.8 to 10,000 Hz	0.8 to 10,000 Hz	
Frequency Range(± 3 dB)	0.4 to 12,000 Hz	0.4 to 12,000 Hz	
Resonant Frequency	≥ 30 kHz	≥ 30 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

Environmental

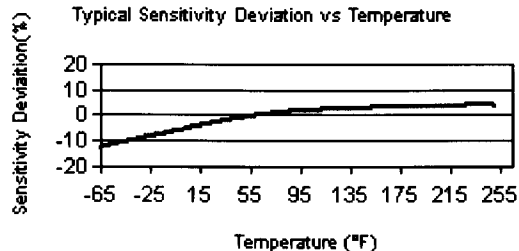
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	

Electrical

Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 300 ohm	≤ 300 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.4 to 1.5 sec	0.4 to 1.5 sec	
Settling Time(within 10% of bias)	<8 sec	<8 sec	
Spectral Noise(1 Hz)	80 µg/√Hz	785 (µm/s ²)/√Hz	
Spectral Noise(10 Hz)	15 µg/√Hz	147 (µm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	4 µg/√Hz	39 (µm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	1 µg/√Hz	9.8 (µm/s ²)/√Hz	[1]
Electrical Isolation(Base)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm	

Physical

Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
Size (Height x Length x Width)	0.19 in x 0.48 in x 0.28 in	4.8 mm x 12.2 mm x 7.1 mm	
Weight	0.03 oz	0.8 gm	[1]
Electrical Connector	3-56 Coaxial Jack	3-56 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	



[3]

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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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.

RH - RoHS Compliant

Supplied Accessory : Model RH030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug, RoHS compliant. replaces Model 030A10

NOTES:

- [1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

- Model 030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug. (1)
Model 039A28 Removal Tool (1)
Model 080A109 Petro Wax (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: <i>[Signature]</i>	Engineer: <i>EB</i>	Sales: <i>RJL</i>	Approved: <i>BM</i>	Spec Number:
Date: 8-23-07	Date: 8-23-07	Date: 8-23-07	Date: 8-23-07	12320

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