

Performance	ENGLISH	SI	
Sensitivity(± 20%)	50 mV/με	50 mV/με	[1]
Measurement Range	100 pk με	100 pk με	
Frequency Range	0.5 to 100,000 Hz	0.5 to 100,000 Hz	[2]
Broadband Resolution(1 to 10,000 Hz)	0.6 nε	0.6 nε	[3]
Non-Linearity	≤ 1%	≤ 1%	[4]
Transverse Sensitivity	≤ 5%	≤ 5%	[3]
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,000 m/s ² pk	
Temperature Range	-65 to +250 °F	-53 to +121 °C	
Acceleration Sensitivity	0.001 με/g	0.0001 με/(m/s ²)	[3][5]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 100 Ohm	< 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	1 to 3 sec	1 to 3 sec	
Spectral Noise(1 Hz)	210 pε/√Hz	210 pε/√Hz	[3]
Spectral Noise(10 Hz)	70 pε/√Hz	70 pε/√Hz	[3]
Spectral Noise(100 Hz)	20 pε/√Hz	20 pε/√Hz	[3]
Spectral Noise(1 kHz)	5 pε/√Hz	5 pε/√Hz	[3]
Spectral Noise(10 kHz)	1 pε/√Hz	1 pε/√Hz	[3]
Physical			
Sensing Element	Quartz	Quartz	
Housing Material	Titanium	Titanium	
Sealing	Epoxy	Epoxy	
Size (Width x Height x Length)	0.2 in x 0.07 in x 0.6 in	5.1 mm x 1.8 mm x 15.2 mm	
Weight	0.02 oz	0.5 gm	[3]
Electrical Connector	10-32- Coaxial Plug	10-32 Coaxial Plug	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	
Cable Length	10 ft	3 m	
Cable Type	030 Coaxial	030 Coaxial	

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] Calibrated on steel bar.
 [2] Based on cable drive of 100 ft at 30 pF/ft 20 mA excitation.
 [3] Typical.
 [4] Zero-based, least-squares, straight line method.
 [5] Measured perpendicular to sensing axis.

SUPPLIED ACCESSORIES:

Model 039A07 Removal Tool (1)
 Model 080A90 Quick Bonding Gel (1)
 Model ACS-15 Piezoelectric Strain Sensor Calibration Certificate. (1)

Entered:	Engineer:	Sales: WDC	Approved: JJB	Spec Number:
Date:	Date:	Date: 10/05/2005	Date: 10/05/2005	9599

Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com

3425 Walden Avenue, Depew, NY 14043



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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