

Model Number
356M86

TRIAXIAL SHEAR ICP® ACCELEROMETER

Revision: B
ECN #: 13674

DYNAMIC PERFORMANCE

Voltage Sensitivity	mV/g [mV/(ms ⁻²)]	10 [1,02]	(±10%)
Measurement Range (for ±5V output)	±g pk [±ms ⁻² pk]	500 [4 900]	
Frequency Range (±5%)	Hz	0.5-2,500 (Y, Z) 0.5-3,000 (X) [4]	
Mounted Resonant Frequency	kHz	≥25	
Broadband Resolution (1 Hz to 10 kHz)	g rms [ms ⁻² rms]	0.0005 [0,005]	[1]
Amplitude Linearity: (400 g)	%	≤±1	[2]
(500 g)	%	≤±2	[2]
Transverse Sensitivity	%	≤5	

ENVIRONMENTAL

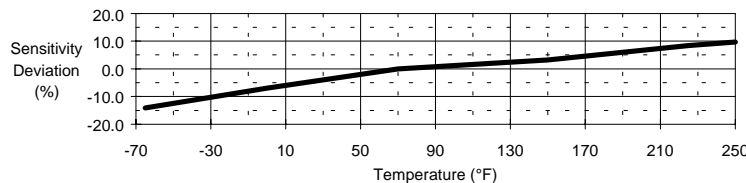
Shock Limit - All Axes (maximum)	±g pk [±ms ⁻² pk]	7,000 [68 600]	
Operating Temperature Range	°F [°C]	-65 to +250 [-54 to +121]	
Temperature Response	%/°F [%/°C]	See Graph	[1]
Strain Sensitivity	g/με [(ms ⁻²)/με]	0.001 [0,01]	[1]

ELECTRICAL

Excitation Voltage/Constant Current	VDC/mA	20 to 30/2 to 20	
Output Impedance	ohms	<200	
Output Bias	VDC	8 to 12	
Discharge Time Constant	sec	1.0 to 2.0	
Warm Up Time (within 10% of output bias)	sec	<5	
Spectral Noise: (1 Hz)	μg/√Hz [(μms ⁻²)/√Hz]	150 [1 472]	[1]
(10 Hz)	μg/√Hz [(μms ⁻²)/√Hz]	25 [245]	[1]
(100 Hz)	μg/√Hz [(μms ⁻²)/√Hz]	10 [98]	[1]
(1 kHz)	μg/√Hz [(μms ⁻²)/√Hz]	5 [49]	[1]

MECHANICAL

Sensing Element	material/geometry	Ceramic/Shear	
Housing	material/sealing	Titanium/Hermetic	
Size (cubic envelope)	in [mm]	0.55 [14,0]	
Weight	oz [gm]	0.37 [10,5]	[1]
Electrical Connector	type/location	4-Pin/Side	
Mounting Thread	size	10-32 Female	
Mounting Torque	in-lb [N-cm]	10-20 [113-225]	



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 by the letter prefixes below. More than one option may be used.

-None-

NOTES:

- [1] Typical.
- [2] Zero-based, least-squares, straight line method.
- [3] See PCB Declaration of Conformance PS023 for details.
- [4] Upper frequency response is ±500 Hz from the specified value.

SUPPLIED ACCESSORIES:

- Model 080A90 Quick Bond Gel (1)
- Model 080A109 Petro Wax Sample (1)
- Model 080A12 Adhesive Mounting Base (1)
- Model 081B05 Mounting Stud (10-32 to 10-32) (1)
- NIST Traceable Calibration Certificate



Phone: (888) 684-0013

Fax: (716) 685-3886

3425 Walden Avenue, Depew, New York 14043

E-Mail: svssales@pcb.com

Drawn:	Eng:	Sales:	Appd:	Spec Number:
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