Model	Number
356	VI 239

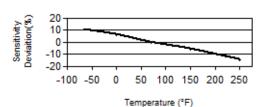
TRIAXIAL ICP® ACCELEROMETER

Revision: NR ECN #: 51276

Performance	ENGLISH	SI	
Sensitivity(± 20 %)	10 mV/g $1.02 \text{ mV/(m/s}^2)$		
Measurement Range	± 500 g pk	± 4,905 m/s² pk	
Frequency Range(± 5 %)(y or z axis)	2 to 8,000 Hz	2 to 8,000 Hz	
Frequency Range(± 5 %)(x axis)	2 to 5,000 Hz ≥ 8 kHz	2 to 5,000 Hz ≥ 8 kHz	
Frequency Range(+ 1 dB)(x axis) Resonant Frequency	≥ 6 kHz ≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s ² rms	[1]
Non-Linearity	0.003 g mis ≤ 1 %	< 1 %	[2
Transverse Sensitivity	< 5 %	< 5 %	Ľ-
Environmental			
Overload Limit(Shock)	± 5,000 g pk	$\pm 49,050 \text{ m/s}^2 \text{ pk}$	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 ℃	
Temperature Response	See Graph	See Graph	[1]
Electrical			
Excitation Voltage	22 to 30 VDC	22 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	9 to 16 VDC	9 to 16 VDC	
Discharge Time Constant	0.24 to 1.0 sec	0.24 to 1.0 sec	
Settling Time(within 10% of bias)	< 3 sec	< 3 sec	[1]
Spectral Noise(1 Hz)	1,200 μg/√Hz	11,772 (µm/sec ²)/√Hz	-
Spectral Noise(10 Hz)	300 μg/√Hz	2,943 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	100 μg/√Hz	981 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	30 μg/√Hz	294 (µm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.25 in x 0.25 in x 0.25 in	6.35 mm x 6.35 mm x 6.35	
MATERIAL CONTRACTOR OF THE STATE OF THE STAT	0.04	mm 1.0	F41
Weight(without cable) Electrical Connector	0.04 oz Integral Cable	1.0 gm Integral Cable	[1]
Electrical Connection Position	Side	Side	
Cable Termination	1/4-28 4-Pin Jack	1/4-28 4-Pin Jack	
Cable Length	5 ft	1.5 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting	Adhesive	Adhesive	
Ĭ			

Typical Sensitivity Deviation vs Temperature





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.

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]Typical.

[2]Zero-based, least-squares, straight line method.

[3]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)

Model 080A90 Quick Bonding Gel (1)

Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

Entered: LK	Engineer: KW	Sales: KK	Approved: BAM	Spec Number:
Date: 11/30/2020	Date: 11/30/2020	Date: 11/30/2020	Date: 11/30/2020	74010



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