

Model Number HV356A03		TRIAxIAL ICP® ACCELEROMETER		Revision: NR ECN #: 56372	
Performance		ENGLISH		SI	
Sensitivity(± 20 %)		10 mV/g		1.02 mV/(m/s ²)	
Measurement Range		± 500 g pk		± 4,905 m/s ² pk	
Frequency Range(± 5 %)(y or z axis)		2 to 6,800 Hz		2 to 6,800 Hz	
Frequency Range(± 5 %)(x axis)		2 to 4,200 Hz		2 to 4,200 Hz	
Frequency Range(+ 1 dB)(x axis)		≥ 6,800 kHz		≥ 6,800 kHz	
Resonant Frequency		≥ 45 kHz		≥ 45 kHz	
Broadband Resolution(1 to 10,000 Hz)		0.003 g rms		0.03 m/s ² rms	
Non-Linearity		≤ 1 %		≤ 1 %	
Transverse Sensitivity		≤ 6 %		≤ 6 %	
Environmental					
Overload Limit(Shock)		± 5,000 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		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	
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	
Spectral Noise(100 Hz)		100 µg/√Hz		981 (µm/sec ²)/√Hz	
Spectral Noise(1 kHz)		30 µg/√Hz		294 (µm/sec ²)/√Hz	
Electrical Isolation		≥ 2,000 VDC		≥ 2,000 VDC	
Physical					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Polymer		Polymer	
Sealing		Hermetic		Hermetic	
Size (Height x Length x Width)		0.34 in x 0.34 in x 0.34 in		8.64 mm x 8.64 mm x 8.64 mm	
Weight(without cable)		0.06 oz		1.7 gm	
Electrical Connector		Integral Cable		Integral Cable	
Electrical Connection Position		Side		Side	
Cable Termination		1/4-28 4-Pin Jack		1/4-28 4-Pin Jack	
Cable Length		10 ft		3 m	
Cable Type		4-conductor shielded, polyolefin jacket		4-conductor shielded, polyolefin jacket	
Mounting		Adhesive		Adhesive	