

Model Number 356A01		TRIAxIAL ICP® ACCELEROMETER			Revision: G ECN #: 42197	
Performance		ENGLISH		SI		
Sensitivity(± 20 %)		5 mV/g		0.51 mV/(m/s²)		
Measurement Range		± 1000 g pk		± 9810 m/s² pk		
Frequency Range(± 5 %)(y or z axis)		2 to 8000 Hz		2 to 8000 Hz		
Frequency Range(± 5 %)(x axis)		2 to 5000 Hz		2 to 5000 Hz		
Frequency Range(+1 dB)(x axis)		≥ 8 kHz		≥ 8 kHz		
Resonant Frequency		≥ 50 kHz		≥ 50 kHz		
Broadband Resolution(1 to 10,000 Hz)		0.003 g rms		0.03 m/s² rms		
Non-Linearity		≤ 1 %		≤ 1 %		
Transverse Sensitivity		≤ 5 %		≤ 5 %		
Environmental						
Overload Limit(Shock)		± 10,000 g pk		± 98,100 m/s² 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		≤ 200 Ohm		≤ 200 Ohm		
Output Bias Voltage		7 to 12 VDC		7 to 12 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)		1200 µg/√Hz		11,772 (µm/sec²)/√Hz		
Spectral Noise(10 Hz)		300 µg/√Hz		2943 (µm/sec²)/√Hz		
Spectral Noise(100 Hz)		100 µg/√Hz		981 (µm/sec²)/√Hz		
Spectral Noise(1 kHz)		30 µg/√Hz		294 (µm/sec²)/√Hz		
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 mm		
Weight(without cable)		0.04 oz		1.0 gm		
Electrical Connector		Integral Cable		Integral Cable		
Electrical Connection Position		Side		Side		
Cable Length		5 ft		1.5 m		
Cable Type		034 4-cond Shielded		034 4-cond Shielded		
Mounting		Adhesive		Adhesive		
						
						