

Model Number <b>356B21</b>		<b>TRIAXIAL ICP® ACCELEROMETER</b>		Revision: H ECN #: 42197	
<b>Performance</b>		<b>ENGLISH</b>		<b>SI</b>	
Sensitivity(± 10 %)		10 mV/g		1.02 mV/(m/s²)	
Measurement Range		± 500 g pk		± 4905 m/s² pk	
Frequency Range(± 5 %)(y or z axis)		2 to 10,000 Hz		2 to 10,000 Hz	
Frequency Range(± 5 %)(x axis)		2 to 7000 Hz		2 to 7000 Hz	
Resonant Frequency		≥ 55 kHz		≥ 55 kHz	
Broadband Resolution(1 to 10,000 Hz)		0.004 g rms		0.04 m/s² rms	
Non-Linearity		≤ 1 %		≤ 1 %	
Transverse Sensitivity		≤ 5 %		≤ 5 %	
<b>Environmental</b>					
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	
<b>Electrical</b>					
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		0.3 to 1.0 sec		0.3 to 1.0 sec	
Settling Time(within 10% of bias)		<3 sec		<3 sec	
Spectral Noise(1 Hz)		1000 µg/√Hz		9810 (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)		50 µg/√Hz		490 (µm/sec²)/√Hz	
<b>Physical</b>					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Titanium		Titanium	
Sealing		Hermetic		Hermetic	
Size (Height x Length x Width)		0.4 in x 0.4 in x 0.4 in		10.2 mm x 10.2 mm x 10.2 mm	
Weight		0.14 oz		4 gm	
Electrical Connector		8-36 4-Pin		8-36 4-Pin	
Electrical Connection Position		Side		Side	
Mounting Thread		5-40 Female		5-40 Female	
					
					