

Model Number 333B31		ICP® ACCELEROMETER		Revision: G ECN #: 26655	
Performance		ENGLISH		SI	
Sensitivity(± 10 %)		100 mV/g		10.2 mV/(m/s²)	
Measurement Range		± 50 g pk		± 490 m/s² pk	
Frequency Range(± 5 %)		0.5 to 3000 Hz		0.5 to 3000 Hz	
Resonant Frequency		≥ 40 kHz		≥ 40 kHz	
Phase Response(± 5 °)(at 70°F [21°C])		2 to 3000 Hz		2 to 3000 Hz	
Broadband Resolution(1 to 10,000 Hz)		0.00015 g rms		0.0015 m/s² rms	
Non-Linearity		≤ 1 %		≤ 1 %	
Transverse Sensitivity		≤ 5 %		≤ 5 %	
Environmental					
Overload Limit(Shock)		± 5000 g pk		± 49,000 m/s² pk	
Temperature Range(Operating)		0 to +150 °F		-18 to +66 °C	
Temperature Response		See Graph		See Graph	
Base Strain Sensitivity		0.01 g/με		0.1 (m/s²)/με	
Electrical					
Excitation Voltage		18 to 30 VDC		18 to 30 VDC	
Constant Current Excitation		2 to 20 mA		2 to 20 mA	
Output Impedance		≤ 300 ohm		≤ 300 ohm	
Output Bias Voltage		7 to 12 VDC		7 to 12 VDC	
Discharge Time Constant		1.0 to 3.0 sec		1.0 to 3.0 sec	
Spectral Noise(1 Hz)		39 μg/√Hz		380 (μm/s²)/√Hz	
Spectral Noise(10 Hz)		11 μg/√Hz		110 (μm/s²)/√Hz	
Spectral Noise(100 Hz)		3.4 μg/√Hz		33 (μm/s²)/√Hz	
Spectral Noise(1 kHz)		1.4 μg/√Hz		14 (μm/s²)/√Hz	
Physical					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Titanium		Titanium	
Sealing		Hermetic		Hermetic	
Size (Height x Diameter)		0.57 in x 0.44 in		14.5 mm x 11.2 mm	
Weight		0.14 oz		4.0 gm	
Electrical Connector		10-32 Coaxial Jack		10-32 Coaxial Jack	
Electrical Connection Position		Top		Top	
Mounting		Adhesive		Adhesive	