

Model Number 601A02		LOW-COST INDUSTRIAL ICP® ACCELEROMETER		Revision: G ECN #: 55435	
Performance		ENGLISH		SI	
Sensitivity(± 20 %)		500 mV/g		51 mV/(m/s ²) [1]	
Measurement Range		± 10 g		± 98 m/s ²	
Frequency Range(± 5 %)		28 to 240,000 cpm		0.47 to 4,000 Hz [2]	
Frequency Range(± 10 %)		20 to 300,000 cpm		0.33 to 5,000 Hz	
Frequency Range(± 3 dB)		10 to 480,000 cpm		0.17 to 8,000 Hz	
Resonant Frequency		960 kcpm		16 kHz [3]	
Broadband Resolution(1 to 10,000 Hz)		35 µg		343 µm/sec ² [3]	
Non-Linearity		± 1 %		± 1 % [4]	
Transverse Sensitivity		≤ 7 %		≤ 7 %	
Environmental					
Overload Limit(Shock)		5,000 g pk		49,050 m/s ² pk	
Temperature Range		-65 to +250 °F		-54 to +121 °C	
Temperature Response		See Graph		See Graph [3]	
Enclosure Rating		IP68		IP68	
Electrical					
Settling Time(within 1% of bias)		≤ 10 sec		≤ 10 sec	
Discharge Time Constant		≥ 1.0 sec		≥ 1.0 sec	
Excitation Voltage		18 to 28 VDC		18 to 28 VDC	
Constant Current Excitation		2 to 20 mA		2 to 20 mA	
Output Impedance		< 150 Ohm		< 150 Ohm	
Output Bias Voltage		8 to 12 VDC		8 to 12 VDC	
Spectral Noise(10 Hz)		3 µg/√Hz		29.4 (µm/sec ²)/√Hz [3]	
Spectral Noise(100 Hz)		0.7 µg/√Hz		6.9 (µm/sec ²)/√Hz [3]	
Spectral Noise(1 kHz)		0.5 µg/√Hz		4.9 (µm/sec ²)/√Hz [3]	
Electrical Isolation(Case)		> 10 ⁸ Ohm		> 10 ⁸ Ohm	
Physical					
Size (Hex x Height)		7/8 in x 1.94 in		22.2 mm x 49.3 mm	
Weight		2.8 oz		80 gm	
Mounting Thread		1/4-28 Female		N/A [5]	
Mounting Torque		2 to 5 ft-lb		2.7 to 6.8 Nm	
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Stainless Steel		Stainless Steel	
Electrical Connector		2-Pin MIL-C-5015		2-Pin MIL-C-5015	
Sealing		Welded Hermetic		Welded Hermetic	
Electrical Connection Position		Top		Top	