

Model Number 3501B1260KG		PIEZORESISTIVE ACCELEROMETER			Revision: B ECN #: 46956	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 50 %)(at 10 VDC excitation)		0.003 mV/g	0.0003 mV/(m/s²)	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Sensitivity		0.0003 mV/V/g	0.00003 mV/V/(m/s²)	[7]		
Measurement Range		± 60 kg	± 588,400 m/s² pk			
Frequency Range(± 1 dB)		0 to 20,000 Hz	0 to 20,000 Hz			
Resonant Frequency		>120 kHz	>120 kHz			
Damping Ratio		2 % Critical	2 % Critical	[5]	M - Metric Mount	
Non-Linearity(per 10,000 g (98,100 m/s²))		≤ 1 %	≤ 1 %		Mounting Thread	M6 x 0.75 Male M6 x 0.75 Male
Transverse Sensitivity		≤ 3 %	≤ 3 %			
Environmental					NOTES: [1] Verified with test data provided on supplied calibration certificate. [2] Settling Time is the maximum time after power-up for the Offset Voltage to be within +/-2% of Measurement Range output of the final offset value. Mounting surface must be at thermal equilibrium. [3] Individually tested to ensure compliance with specified value. [4] Half-sine pulse duration, ≥ 20 µsec. [5] Typical. [6] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C) [7] Sensitivity is proportional to excitation voltage, and at other excitation values, sensitivity can be predicted from the 10VDC calibrated value with a small (<~.5%) increase in uncertainty. [8] See PCB Declaration of Conformance PS151 for details.	
Overload Limit(Shock)		± 100,000 g pk	± 980,665 m/s² pk	[4]		
Overload Limit(Mechanical Stops)		≥ 80 kg	≥ 782,534 m/s² pk			
Temperature Range(Storage)		-65 to 250 °F	-54 to 121 °C			
Temperature Range(Operating)		-65 to 250 °F	-54 to 121 °C			
Temperature Coefficient of Sensitivity		-0.11 %/°F	-0.20 %/°C	[5]		
Zero g Offset Temperature Shift		± 10 mV	± 10 mV	[6]		
Base Strain Sensitivity		0.3 g/µε	2.94 (m/s²)/µε	[5]		
Electrical						
Excitation Voltage(Maximum)		15.0 VDC	15.0 VDC			
Current Consumption		<3 mA	<3 mA			
Input Resistance(± 2000 Ohm)		6000 Ohm	6000 Ohm	[1]		
Output Resistance(± 2000 Ohm)		6000 Ohm	6000 Ohm	[1]		
Offset Voltage		-40 to +40 mVDC	-40 to +40 mVDC	[1]		
Settling Time		0.01 sec	0.01 sec	[2]		
Electrical Isolation(Case)		≥ 10 ⁷ Ohm	≥ 10 ⁷ Ohm	[3]		
Physical						
Sensing Element		Piezoresistive MEMS	Piezoresistive MEMS			
Sensing Geometry		Full Active	Full Active			
Housing Material		Titanium	Titanium			
Sealing		Epoxy	Epoxy			
Size (Hex x Height)		3/8 in x .50 in	3/8 in x 12.7 mm			
Weight(without cable)		0.088 oz	2.5 gm	[5]		
Electrical Connector		Integral Cable	Integral Cable			
Electrical Connection Position		Side	Side			
Cable Type		096 4-cond silicone jacket	096 4-cond silicone jacket			
Cable Termination		Pigtail Ends	Pigtail Ends			
Cable Length		10 ft	3.05 m			
Mounting		Integral Stud	Integral Stud			
Mounting Thread		1/4-28 Male	1/4-28 Male			
CE [8] All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice. ICP® is a registered trademark of PCB Group, Inc.						
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