


Model Number 3651A122KG	PIEZORESISTIVE ACCELEROMETER			Revision: H ECN #: 46611
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 50 %)(at 10 VDC excitation)	0.20 mV/g	0.020 mV/(m/s ²)	[2]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 2000 g pk	± 19,620 m/s ² pk		
Frequency Range(± 5 %)	0 to 5000 Hz	0 to 5000 Hz		
Resonant Frequency	>20 kHz	>20 kHz		
Damping Ratio(± 0.3)	0.7 critical	0.7 critical	[1]	
Non-Linearity	± 1 %	± 1 %	[7]	
Transverse Sensitivity	≤ 2 %	≤ 2 %		
Environmental				
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	[5][4]	
Overload Limit(Mechanical Stops)	≥ 2200 g pk	≥ 21,582 m/s ² pk		
Temperature Range(Operating)	0 to 150 °F	-18 to 66 °C		NOTES:
Temperature Range(Storage)	-65 to 250 °F	-54 to 121 °C		[1] Typical.
Temperature Coefficient of Sensitivity	-0.10 %/°F	-0.18 %/°C	[1]	[2] Verified with test data provided on supplied calibration certificate.
Zero g Offset Temperature Shift	± 20 mV	± 20 mV	[6]	[3] 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.
Base Strain Sensitivity	0.01 g/με	0.1 (m/s ²)/με	[1]	[4] Individually tested to ensure compliance with specified value.
Electrical				[5] Half-sine pulse duration, ≥ 200 μsec.
Excitation Voltage(Maximum)	15 VDC	15 VDC		[6] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
Current Consumption	<10 mA	<10 mA	[1]	[7] % deviation per 1000g
Input Resistance(± 1250 Ohm)	2750 Ohm	2750 Ohm	[2]	
Output Resistance(± 1250 Ohm)	2750 Ohm	2750 Ohm	[2]	
Offset Voltage	± 50 mVDC	± 50 mVDC	[2]	
Settling Time	0.01 sec	0.01 sec	[3]	
Electrical Isolation(Case)	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	[4]	
Physical				SUPPLIED ACCESSORIES:
Sensing Element	Piezoresistive MEMS	Piezoresistive MEMS		Model 039A30 Allen wrench, 0.050 hex (1)
Sensing Geometry	Full Active	Full Active		Model 080A191 Skt hd cap screw, QTY 2,0-80x3/16" with washer (1)
Housing Material	Anodized Aluminum	Anodized Aluminum		Model ACS-29 Calibration of Piezoresistive Accelerometers
Sealing	Epoxy	Epoxy		
Size (Height x Length x Width)	0.200 in x 0.470 in x 0.400 in	5.08 mm x 11.94 mm x 10.16 mm	[1]	
Weight(without cable)	0.035 oz	1 gm		
Electrical Connector	Integral Cable	Integral Cable		
Electrical Connection Position	Side	Side		
Cable Type	036 4-cond silicone jacket	036 4-cond silicone jacket		
Cable Termination	Pigtail Ends	Pigtail Ends		
Cable Length	30 ft	9.14 m		
Mounting	Through Holes (2)	Through Holes (2)		
<p>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.</p>				
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