

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 50 %)(at 10 VDC excitation)	0.20 mV/g	0.020 mV/(m/s ²)	[2]
Sensitivity	0.02 mV/V/g	0.002 mV/V/(m/s ²)	[7]
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 %	[8]
Transverse Sensitivity	≤ 2 %	≤ 2 %	
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	[5]
Overload Limit(Mechanical Stops)	≥ 2200 g pk	≥ 21,582 m/s ² pk	
Temperature Range(Operating)	0 to 150 °F	-18 to 66 °C	
Temperature Range(Storage)	-65 to 250 °F	-54 to 121 °C	
Temperature Coefficient of Sensitivity	-0.10 %/°F	-0.18 %/°C	[1]
Zero g Offset Temperature Shift	± 20 mV	± 20 mV	[6]
Base Strain Sensitivity	0.01 g/µε	0.1 (m/s ²)/µε	[1]
Electrical			
Excitation Voltage(Maximum)	15 VDC	15 VDC	
Current Consumption	<10 mA	<10 mA	[1]
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			
Sensing Element	Piezoresistive MEMS	Piezoresistive MEMS	
Sensing Geometry	Full Active	Full Active	
Housing Material	Anodized Aluminum	Anodized Aluminum	
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	
Weight(without cable)	0.035 oz	1 gm	[1]
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)	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1] Typical.
 [2] Verified with test data provided on supplied calibration certificate.
 [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.
 [4] Individually tested to ensure compliance with specified value.
 [5] Half-sine pulse duration, ≥ 200 µsec.
 [6] Reference to room temp.
 [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] % deviation per 1000g
 [9] See PCB Declaration of Conformance PS156 for details.

SUPPLIED ACCESSORIES:

Model 039A30 Allen wrench, 0.050 hex (1)
 Model 080A191 Skt hd cap screw, QTY 2, 0-80x3/16" with washer (1)
 Model ACS-29 Calibration of Piezoresistive Accelerometers

Entered: LK	Engineer: LAB	Sales: RM	Approved: NJF	Spec Number:
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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.
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