

Model Number 357B81	CHARGE OUTPUT ACCELEROMETER	Revision: A ECN #: 46956
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 5 %)	20 pC/g	2.04 pC/(m/s ²)	
Measurement Range	± 2000 g pk	± 19,620 m/s ² pk	
Frequency Range(± 5 %)	9 kHz	9 kHz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Non-Linearity(2000 g, 19620 m/s ²)	≤ 1 %	≤ 1 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	[2]
Environmental			
Overload Limit(Shock)	± 4000 g pk	± 39,240 m/s ² pk	
Temperature Range(Operating)	-65 to 500 °F	-54 to 260 °C	
Temperature Range(Maximum)	550 °F	288 °C	
Temperature Response(Operating)	See Graph	See Graph	[1]
Base Strain Sensitivity	.004 g/με	.04 (m/s ²)/με	[1]
Radiation Exposure Limit(Integrated Neutron Flux)	1E10 N/cm ²	1E10 N/cm ²	
Radiation Exposure Limit(Integrated Gamma Flux)	1E8 rad	1E8 rad	
Electrical			
Capacitance(Pin to Pin)	2400 pF	2400 pF	[1]
Capacitance(Pin to Case)	30 pF	30 pF	[1]
Capacitance(Unbalance Between Pins)	≤ 2 pF	≤ 2 pF	
Insulation Resistance(Pin to Case at 70°F [21°C])	≥ 1 GOhm	≥ 1 GOhm	
Insulation Resistance(Pin to Pin at 500°F [260°C])	≥ 10 MOhm	≥ 10 MOhm	
Insulation Resistance(Pin to Pin at 70°F [21°C])	≥ 1 GOhm	≥ 1 GOhm	
Insulation Resistance(Pin to Case at 500°F [260°C])	≥ 50 MOhm	≥ 50 MOhm	
Output Polarity	Differential	Differential	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Height x Diameter)	1.00 in x .75 in	25.4 mm x 19 mm	
Weight(Maximum)	1.75 oz	50 gm	[1]
Electrical Connector	7/16-27 2-Pin	7/16-27 2-Pin	
Electrical Connection Position	Side	Side	
Mounting	Through Holes (3)	Through Holes (3)	

OPTIONAL VERSIONS

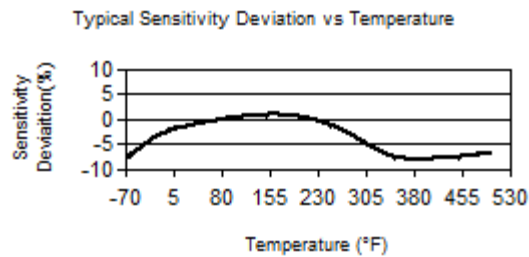
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1] Typical.
 [2] Transverse sensitivity is typically ≤ 3%.
 [3] See PCB Declaration of Conformance PS160 for details.

SUPPLIED ACCESSORIES:

Model 081A99 Cap Screw (3)
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)



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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Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:
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