

Model Number

357B81

CHARGE OUTPUT ACCELEROMETER

Revision: NR
ECN #:**Performance**

	ENGLISH	SI	
Sensitivity ($\pm 5\%$)	20 pC/g	2.04 pC/(m/s ²)	
Measurement Range	± 2000 g pk	$\pm 19,620$ m/s ² pk	
Frequency Range ($\pm 5\%$)	9 kHz	9 kHz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Non-Linearity (2000 g, 19620 m/s ²)	$\leq 1\%$	$\leq 1\%$	
Transverse Sensitivity	$\leq 5\%$	$\leq 5\%$	[2]

Environmental

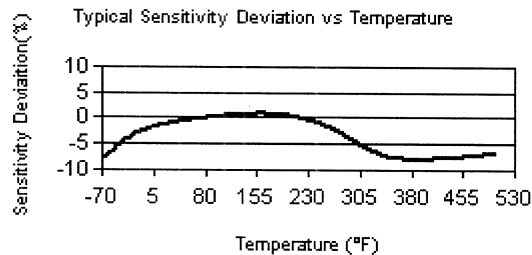
	ENGLISH	SI	
Overload Limit (Shock)	± 4000 g pk	$\pm 39,240$ m/s ² pk	
Temperature Range (Operating)	-65 to 500 °F	-54 to 260 °C	
Temperature Range (Maximum)	550 °F	288 °C	
Base Strain Sensitivity	.004 g/ $\mu\epsilon$.04 (m/s ²)/ $\mu\epsilon$	[1]
Radiation Exposure Limit (Integrated Neutron Flux)	1E10 N/cm ²	1E10 N/cm ²	
Radiation Exposure Limit (Integrated Gamma Flux)	1E8 rad	1E8 rad	

Electrical

	ENGLISH	SI	
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 Pin at 70°F [21°C])	≥ 1 Gohm	≥ 1 Gohm	
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 Case at 500°F [260°C])	≥ 50 Mohm	≥ 50 Mohm	
Output Polarity	Differential	Differential	

Physical

	ENGLISH	SI	
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)	



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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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 $\leq 3\%$.**SUPPLIED ACCESSORIES:**

Model 081A99 Cap Screw (3)

Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: BLS	Engineer: JOR	Sales: csm	Approved: JLT	Spec Number:
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Date: 8/25/06	Date: 8/25/06	Date: 9/12/06	Date: 8/28/06	27752
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