

Model Number
357B53

CHARGE OUTPUT ACCELEROMETER

Revision: E
ECN #: 46956

Performance

	ENGLISH	SI	
Sensitivity(± 15 %)	100 pC/g	10.2 pC/(m/s ²)	
Measurement Range	± 150 g pk	± 1470 m/s ² pk	
Frequency Range(+5 %)	3 kHz	3 kHz	[2]
Frequency Range(+10 %)	3.5 kHz	3.5 kHz	[2]
Frequency Range(+3 dB)	5.5 kHz	5.5 kHz	[2]
Resonant Frequency	≥ 12 kHz	≥ 12 kHz	
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

Environmental

	ENGLISH	SI	
Overload Limit(Shock)	± 2000 g pk	± 19,600 m/s ² pk	
Temperature Range	-95 to +550 °F	-71 to +288 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.0002 g/με	0.002 (m/s ²)/με	[1]
Radiation Exposure Limit(Integrated Gamma Flux)	≤ 10 ⁸ rad	≤ 10 ⁸ rad	
Radiation Exposure Limit(Integrated Neutron Flux)	≤ 10 ¹⁰ N/cm ²	≤ 10 ¹⁰ N/cm ²	

Electrical

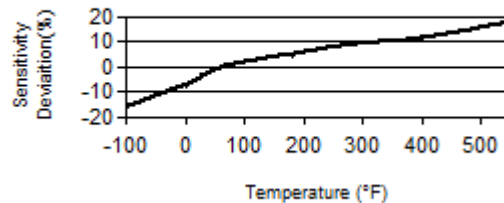
	ENGLISH	SI	
Capacitance	930 pF	930 pF	[1]
Insulation Resistance(at 550°F)	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	[1]
Insulation Resistance(at 70° F [21°C])	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm	
Output Polarity	Negative	Negative	
Electrical Isolation(Base)	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	

Physical

	ENGLISH	SI	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	3/4 in x 1.13 in	3/4 in x 28.7 mm	
Weight	1.80 oz	51 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	



Typical Sensitivity Deviation vs Temperature



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] Low frequency response is determined by external signal conditioning electronics.
- [3] Zero-based, least-squares, straight line method.
- [4] See PCB Declaration of Conformance PS081 for details.

SUPPLIED ACCESSORIES:

- Model 081B05 Mounting Stud (10-32 to 10-32) (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
- Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:
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PCB PIEZOTRONICS[™]
3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com