

Model Number  
**357B54**

# CHARGE OUTPUT ACCELEROMETER

Revision: E  
ECN #: 46956

## Performance

	ENGLISH	SI	
Sensitivity(± 15 %)	100 pC/g	10.2 pC/(m/s <sup>2</sup> )	
Measurement Range	± 150 g pk	± 1470 m/s <sup>2</sup> 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

Overload Limit(Shock)	± 2000 g pk	± 19,600 m/s <sup>2</sup> 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 <sup>2</sup> )/με	[1]
Radiation Exposure Limit(Integrated Gamma Flux)	≤ 10 <sup>8</sup> rad	≤ 10 <sup>8</sup> rad	
Radiation Exposure Limit(Integrated Neutron Flux)	≤ 10 <sup>10</sup> N/cm <sup>2</sup>	≤ 10 <sup>10</sup> N/cm <sup>2</sup>	

## Electrical

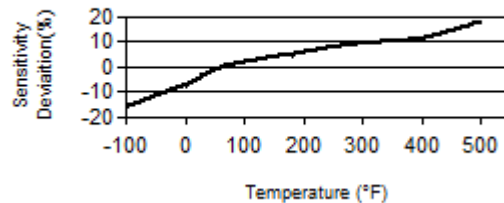
Capacitance	930 pF	930 pF	[1]
Insulation Resistance(at 550°F)	≥ 10 <sup>8</sup> Ohm	≥ 10 <sup>8</sup> Ohm	[1]
Insulation Resistance(at 70° F [21°C])	≥ 10 <sup>12</sup> Ohm	≥ 10 <sup>12</sup> Ohm	
Output Polarity	Negative	Negative	
Electrical Isolation(Base)	≥ 10 <sup>8</sup> Ohm	≥ 10 <sup>8</sup> Ohm	

## Physical

Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	3/4 in x 1.43 in	3/4 in x 36.3 mm	
Weight	1.80 oz	51 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
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 PS160 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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