

Model Number 357B03	CHARGE OUTPUT ACCELEROMETER	Revision: K ECN #: 46956
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 15 %)	10 pC/g	1.02 pC/(m/s ²)	
Measurement Range	± 2000 g pk	± 19,600 m/s ² pk	
Frequency Range(+5 %)	9 kHz	9 kHz	[2]
Frequency Range(+10 %)	12 kHz	12 kHz	[2]
Frequency Range(+3 dB)	18 kHz	18 kHz	[2]
Resonant Frequency	≥ 38 kHz	≥ 38 kHz	
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 21,000 g pk	± 206,010 m/s ² pk	
Temperature Range	-95 to +500 °F	-71 to +260 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.0002 g/με	0.002 (m/s ²)/με	[1]
Electrical			
Capacitance	930 pF	930 pF	[1]
Insulation Resistance(at 500°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	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	1/2 in x 0.81 in	1/2 in x 20.6 mm	[1]
Weight	0.39 oz	11 gm	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	

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.		
J - Ground Isolated		
Frequency Range(+5 %)	7 kHz	7 kHz
Frequency Range(+10 %)	8 kHz	8 kHz
Resonant Frequency	≥ 30 kHz	≥ 30 kHz
Electrical Isolation(Base)	>10 ⁸ Ohm	>10 ⁸ Ohm
Size - Hex x Height	0.5 in x 0.86 in	12.7 mm x 21.8 mm
P - Positive Output Polarity		
Output Polarity	Positive	Positive
W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

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 080A109 Petro Wax (1)
 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)

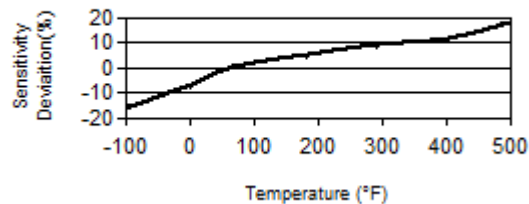
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Typical Sensitivity Deviation vs Temperature



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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