

Model Number
357B04

CHARGE OUTPUT ACCELEROMETER

Revision: J
ECN #: 29612

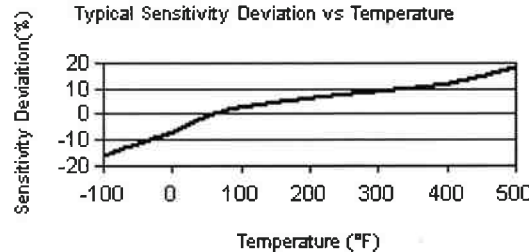
	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	10 pC/g	1.02 pC/(m/s ²)	
Measurement Range	± 2000 g pk	± 19,600 m/s ² pk	
Frequency Range(+5 %)	9 kHz	9 kHz	[2]
Frequency Range(+10 %)	12 kHz	12 kHz	[2]
Frequency Range(+3 dB)	18 kHz	18 kHz	[2]
Resonant Frequency	≥ 38 kHz	≥ 38 kHz	
Non-Linearity	≤ 1 %	≤ 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 70° F [21°C])	≥ 10 ¹² ohm	≥ 10 ¹² ohm	
Insulation Resistance(at 500°F)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm	[1]
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 1.19 in	1/2 in x 30.2 mm	
Weight	0.39 oz	11 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	

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.

Option	Specification	Standard Model	Optional Version
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 1.24 in	12.7 mm x 31.5 mm
P - Positive Output Polarity	Output Polarity	Positive	Positive
W - Water Resistant Cable	Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
	Electrical Connection Position	Top	Top

NOTES:
[1] Typical.
[2] Low frequency response is determined by external signal conditioning electronics.
[3] Zero-based, least-squares, straight line method.

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)



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.
ICP® is a registered trademark of PCB Group, Inc.

Entered: <i>JH</i>	Engineer: <i>JH</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>11-4-08</i>	Date: <i>7-26-08</i>	Date: <i>10-10-08</i>	Date: <i>10-29-08</i>	1005

PCB PIEZOTRONICS™
VIBRATION DIVISION
3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001
Fax: 716-685-3886
E-Mail: vibration@pcb.com