

Model Number  
**356B21**

# TRIAXIAL ICP® ACCELEROMETER

Revision: G  
ECN #: 32784

## Performance

Sensitivity(± 10 %)  
Measurement Range  
Frequency Range(± 5 %)(y or z axis)  
(± 5 %)(x axis)  
Resonant Frequency  
Broadband Resolution(1 to 10,000 Hz)  
Non-Linearity  
Transverse Sensitivity

## ENGLISH

10 mV/g  
± 500 g pk  
2 to 10,000 Hz  
2 to 7000 Hz  
≥ 55 kHz  
0.004 g rms  
≤ 1 %  
≤ 5 %

## SI

1.02 mV/(m/s<sup>2</sup>)  
± 4905 m/s<sup>2</sup> pk  
2 to 10,000 Hz  
2 to 7000 Hz  
≥ 55 kHz  
0.04 m/s<sup>2</sup> rms  
≤ 1 %  
≤ 5 %

## Environmental

Overload Limit(Shock)  
Temperature Range(Operating)  
Temperature Response

± 10,000 g pk  
-65 to +250 °F  
See Graph

± 98,100 m/s<sup>2</sup> pk  
-54 to +121 °C  
See Graph

## Electrical

Excitation Voltage  
Constant Current Excitation  
Output Impedance  
Output Bias Voltage  
Discharge Time Constant  
Settling Time(within 10% of bias)

18 to 30 VDC  
2 to 20 mA  
≤ 200 ohm  
7 to 11 VDC  
0.3 to 1.0 sec  
<3 sec

18 to 30 VDC  
2 to 20 mA  
≤ 200 ohm  
7 to 11 VDC  
0.3 to 1.0 sec  
<3 sec

Spectral Noise(1 Hz)  
(10 Hz)  
(100 Hz)  
(1 kHz)

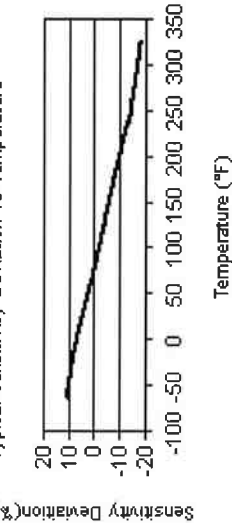
1000 µg/√Hz  
300 µg/√Hz  
100 µg/√Hz  
50 µg/√Hz

## Physical

Sensing Element  
Sensing Geometry  
Housing Material  
Sealing  
Size (Height x Length x Width)  
Weight  
Electrical Connector  
Electrical Connection Position  
Mounting Thread

Ceramic  
Shear  
Titanium  
Hermetic  
0.4 in x 0.4 in x 0.4 in  
10.2 mm x 10.2 mm x 10.2 mm  
0.14 oz  
8-36 4-Pin  
Side  
5-40 Female

Typical Sensitivity Deviation vs Temperature



[4]

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 have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

## OPTIONAL VERSIONS

**A - Adhesive Mount**  
Supplied Accessory : Model 080A109 Petro Wax (1)  
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

**HT - High temperature, extends normal operation temperatures**  
Temperature Range(Operating) -65 to +325 °F -54 to +163 °C

**J - Ground Isolated**  
Frequency Range(+5 %) 7 kHz  
Electrical Isolation(Base) >10<sup>8</sup> ohm  
Size - Height x Length x Width 0.44 in x 0.40 in x 0.44 in 11.2 mm x 10.2 mm x 11.2 mm  
Weight 0.16 oz  
Mounting Adhesive  
Supplied Accessory : Model 034K10 Cable 10FT Mini 4 Pin To (3) BNC (1)  
Supplied Accessory : Model 080A109 Petro Wax (1)  
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

## NOTES:

- [1] Typical.
- [2] 250° F to 325° F data valid with HT option only.
- [3] Zero-based, least-squares, straight line method.
- [4] See PCB Declaration of Conformance PS023 for details.

## SUPPLIED ACCESSORIES:

- Model 034K10 Cable 10FT Mini 4 Pin To (3) BNC (1)
- Model 080A Adhesive Mounting Base (1)
- Model 080A109 Petro Wax (1)
- Model 081A27 Mounting Stud (5-40 to 5-40) (1)
- Model 081A90 Mounting stud, 10-32 to 5-40 (1)
- Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
- Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

Entered: JH	Engineer: AA	Sales: WDC	Approved: EB	Spec Number:
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3425 Walden Avenue, Depew, NY 14043

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