

# TRIAXIAL ICP® ACCELEROMETER

**Performance**  
Sensitivity(± 15 %) 10 mV/(m/s<sup>2</sup>)  
Measurement Range ± 500 g pk  
Frequency Range(± 5 %) 1 to 9000 Hz  
(± 10 %) 0.5 to 12,000 Hz  
Resonant Frequency ≥ 45 kHz  
Broadband Resolution(1 to 10,000 Hz) 0.004 g rms  
Non-Linearity ≤ 1 %  
Transverse Sensitivity ≤ 5 %

**Environmental**  
Overload Limit(Shock) ± 10,000 g pk  
Temperature Range(Operating) -65 to +250 °F  
Temperature Response See Graph

**Electrical**  
Excitation Voltage 18 to 30 VDC  
Constant Current Excitation 2 to 20 mA  
Output Impedance ≤ 200 ohm  
Output Bias Voltage 7 to 11 VDC  
Discharge Time Constant 1.0 to 3.5 sec  
Settling Time(within 10% of bias) <10 sec  
Spectral Noise(1 Hz) 900 µg/√Hz  
(10 Hz) 250 µg/√Hz  
(100 Hz) 100 µg/√Hz  
(1 kHz) 50 µg/√Hz

**Physical**  
Sensing Element Ceramic  
Sensing Geometry Shear  
Housing Material Titanium  
Sealing Hermetic  
Size (Height x Length x Width) 0.28 in x 0.47 in x 0.47 in 7.0 mm x 12.0 mm x 12.0 mm  
Weight(without cable) 0.11 oz 3.1 gm  
Electrical Connector 8-36 4-Pin  
Electrical Connection Position Side  
Mounting Adhesive

**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.

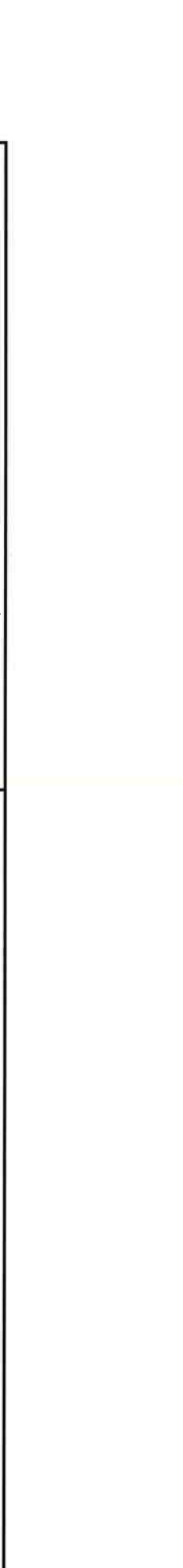
**HT** - High temperature, extends normal operation temperatures  
Temperature Range(Operating) -65 to +325 °F -54 to +163 °C

**J** - Ground Isolated  
Electrical Isolation(Base) 10<sup>8</sup> ohm  
Size - Height x Length x Width 0.33 in x 0.47 in x 0.47 in 8.3 mm x 12.0 mm x 12.0 mm  
Weight 0.13 oz 3.7 gm

**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 080A109 Petro Wax (1)  
Model 080A90 Quick Bonding Gel (1)  
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

Entered: <i>JJA</i>	Engineer: <i>AA</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
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**CE** [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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