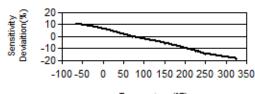
Model Number TRIAXIAL ICP® ACCELEROMETER 356A33 Performance **ENGLISH** SI Sensitivity(± 10 %) 10 mV/g 1.02 mV/(m/s²) Measurement Range ± 4905 m/s² pk ± 500 q pk Frequency Range(± 5 %)(y or z axis) 2 to 10,000 Hz 2 to 10.000 Hz Frequency Range(± 5 %)(x axis) 2 to 7000 Hz 2 to 7000 Hz Resonant Frequency ≥ 55 kHz ≥ 55 kHz [1] Broadband Resolution(1 to 10,000 Hz) 0.04 m/s² rms 0.004 g rms [3] Non-Linearity ≤ 1 % ≤ 1 % Transverse Sensitivity ≤ 5 % ≤ 5 % Environmental Overload Limit(Shock) ± 10,000 g pk ± 98,100 m/s² pk [2] Temperature Range(Operating) -65 to +250 °F -54 to +121 °C [1][2] Temperature Response See Graph See Graph Electrical Excitation Voltage 18 to 30 VDC 18 to 30 VDC Constant Current Excitation 2 to 20 mA 2 to 20 mA Output Impedance ≤ 200 Ohm ≤ 200 Ohm Output Bias Voltage 7 to 12 VDC 7 to 12 VDC Discharge Time Constant 0.3 to 1.0 sec 0.3 to 1.0 sec Settling Time(within 10% of bias) <3 sec <3 sec Spectral Noise(1 Hz) 1000 µg/√Hz 9810 (µm/sec²)/√Hz [1] Spectral Noise(10 Hz) 300 ug/√Hz 2943 (um/sec²)/√Hz [1] Spectral Noise(100 Hz) 100 μg/√Hz [1] 981 (µm/sec²)/√Hz Spectral Noise(1 kHz) [1] 50 μg/√Hz 490 (µm/sec²)/√Hz Physical Sensing Element Ceramic Ceramic Sensing Geometry Shear Shear Housing Material Titanium Titanium Sealing Hermetic Hermetic Size (Height x Length x Width) 0.4 in x 0.77 in x 0.4 in 10.2 mm x 19.6 mm x 10.2 mm Weight 0.19 oz 5.3 gm [1] **Electrical Connector** 1/4-28 4-Pin 1/4-28 4-Pin **Electrical Connection Position** Side Side Mounting Thread 5-40 Female 5-40 Female Mounting Torque 4 to 5 in-lb 45 to 56 N-cm Typical Sensitivity Deviation vs Temperature 20





Temperature (°F)

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.

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

Supplied Accessory: Model 080A Adhesive Mounting Base

Supplied Accessory: Model 081A27 Mounting Stud (5-40 to 5-40) (1)

Supplied Accessory: Model 081A90 Mounting stud, 10-32 to 5-40

Supplied Accessory: Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (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 080A Adhesive Mounting Base 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: LK	Engineer: SDS	Sales: WDC	Approved: JJB	Spec Number:
Date: 9/25/2017	Date: 9/25/2017	Date: 9/25/2017	Date: 9/25/2017	20697



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