
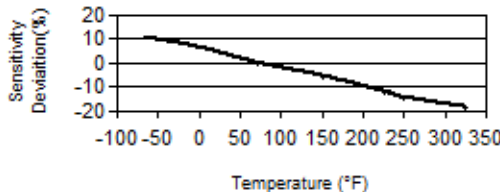



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|--------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|---------------|------------|---------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|
| Model Number HT356A33 | | TRIAXIAL ICP® ACCELEROMETER | | Revision: D | | | | | | | | | | | |
| Performance | | ENGLISH | SI | OPTIONAL VERSIONS | | | | | | | | | | | |
| Sensitivity(± 10 %) | | 10 mV/g | 1.02 mV/(m/s²) | Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. | | | | | | | | | | | |
| Measurement Range | | ± 500 g pk | ± 4905 m/s² 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 | | | | | | | | | | | | |
| Broadband Resolution(1 to 10,000 Hz) | | 0.004 g rms | 0.04 m/s² rms | 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) | | | | | | | | | | | |
| Non-Linearity | | ≤ 1 % | ≤ 1 % | | | | | | | | | | | | |
| Transverse Sensitivity | | ≤ 5 % | ≤ 5 % | | | | | | | | | | | | |
| Environmental | | | | | | | | | | | | | | | |
| Overload Limit(Shock) | | ± 10,000 g pk | ± 98,100 m/s² pk | | | | | | | | | | | | |
| Temperature Range(Operating) | | -65 to +325 °F | -54 to +163 °C | NOTES: [1] Typical. [2] 250° F to 325° F data valid with HT series only. [3] Zero-based, least-squares, straight line method. [4] See PCB Declaration of Conformance PS023 for details. | | | | | | | | | | | |
| 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 | | | | | | | | | | | | |
| Spectral Noise(10 Hz) | | 300 µg/√Hz | 2943 (µm/sec²)/√Hz | 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) | | | | | | | | | | | |
| Spectral Noise(100 Hz) | | 100 µg/√Hz | 981 (µm/sec²)/√Hz | | | | | | | | | | | | |
| Spectral Noise(1 kHz) | | 50 µg/√Hz | 490 (µm/sec²)/√Hz | | | | | | | | | | | | |
| Physical | | | | | | | | | | | | | | | |
| Sensing Element | | Ceramic | Ceramic | | | | | | | | | | | | |
| Sensing Geometry | | Shear | Shear | <table><tr><td>Entered: LK</td><td>Engineer: SDS</td><td>Sales: WDC</td><td>Approved: JJB</td><td>Spec Number:</td></tr><tr><td>Date: 9/25/2017</td><td>Date: 9/25/2017</td><td>Date: 9/25/2017</td><td>Date: 9/25/2017</td><td>20697</td></tr></table> | | 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 |
| 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 | | | | | | | | | |
| 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 | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | <p>Typical Sensitivity Deviation vs Temperature</p>  | | | | | | | | | | | | | |
| | | <p>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.</p> <p>ICP® is a registered trademark of PCB Group, Inc.</p> | |  <p>3425 Walden Avenue, Depew, NY 14043</p> <p>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> | | | | | | | | | | | |