Model Number Revision: D **ICP® ACCELEROMETER** 355B34 ECN #: 45915 **ENGLISH** Performance 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 ± 4900 m/s² pk Frequency Range(± 5 %) 2 to 5000 Hz 2 to 5000 Hz M - Metric Mount 1 to 7000 Hz 1 to 7000 Hz Frequency Range(± 10 %) Supplied Accessory: Model M039A22 Allen wrench for use with M3 thread (1) replaces Model Frequency Range(± 3 dB) 0.5 to 12,000 Hz 0.5 to 12,000 Hz 039A22 Resonant Frequency ≥ 25 kHz ≥ 25 kHz Supplied Accessory: Model M081B45 Insulated cap screw, M3x0.5 thd x 5/8" long (for Model Broadband Resolution(1 to 10.000 Hz) 0.001 g rms 0.01 m/s² rms [1] M355B02) (1) replaces Model 081B45 [2] Non-Linearity ≤ 1 % ≤ 1 % [3] Transverse Sensitivity ≤ 5 % ≤ 5 % T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4 Environmental TLA - TEDS LMS International - Free Format Overload Limit(Shock) ± 5000 q pk ± 49,050 m/s² pk TLB - TEDS LMS International - Automotive Format Temperature Range(Operating) -65 to +250 °F -54 to +121 °C TLC - TEDS LMS International - Aeronautical Format Temperature Response See Graph [1] See Graph TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Electrical 8.5 to 12.7 VDC Output Bias Voltage 8.5 to 12.7 VDC 19 to 30 VDC **Excitation Voltage** 19 to 30 VDC Constant Current Excitation 2 to 20 mA 2 to 20 mA Output Impedance ≤ 100 Ohm ≤ 100 Ohm 8 to 12 VDC 8 to 12 VDC Output Bias Voltage Discharge Time Constant 0.5 to 2.0 sec 0.5 to 2.0 sec Settling Time(within 10% of bias) <5 sec <5 sec Spectral Noise(1 Hz) 440 µg/√Hz 4320 (µm/sec²)/√Hz [1] Spectral Noise(10 Hz) 135 µg/√Hz 1325 (µm/sec²)/√Hz Spectral Noise(100 Hz) 35 µa/√Hz 345 (µm/sec²)/√Hz [1] NOTES: [1] Spectral Noise(1 kHz) 10 μg/√Hz 98 (μ m/sec²)/ \sqrt{Hz} [1] Typical. Electrical Isolation(Base) ≥ 10⁸ Ohm ≥ 10⁸ Ohm [2] Zero-based, least-squares, straight line method. Physical [3] Transverse sensitivity is typically ≤ 3%. Size (Height x Length x Width) 0.40 in x 0.70 in x 0.63 in 10.2 mm x 17.8 mm x 15.9 mm [4] See PCB Declaration of Conformance PS023 for details. Weight 0.39 oz 11 am [1] Quartz Sensing Element Quartz Sensing Geometry Shear Shear Housing Material Titanium Titanium Sealing Hermetic Hermetic **Electrical Connector** 10-32 Coaxial Jack 10-32 Coaxial Jack **Electrical Connection Position** Side Side Through Hole Through Hole Mounting Typical Sensitivity Deviation vs Temperature SUPPLIED ACCESSORIES: Model 039A22 Allen wrench, 7/64" hex (1) Sensitivity Deviaition(%) 10 Model 080A109 Petro Wax (1) Model 081B45 Insulated cap screw, 6-32 thd x 5/8" long (for Model 355B02) (1) Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1) -10--100 100 200 300 Entered: LK Engineer: BAM Sales: WDC Approved: BAM Spec Number: 20499 Date: 9/16/2016 Date: 9/16/2016 Date: 9/16/2016 Date: 9/16/2016 Temperature (°F) All specifications are at room temperature unless otherwise specified. Phone: 716-684-0001 In the interest of constant product improvement, we reserve the right to change specifications without notice. Fax: 716-684-0987 ICP® is a registered trademark of PCB Group, Inc. E-Mail: info@pcb.com