## Model Number Revision: B ICP® ACCELEROMETER 320C52 ECN #: 39533 **ENGLISH** Performance SI **OPTIONAL VERSIONS** Optional versions have identical specifications and accessories as listed for the standard model Sensitivity(± 10 %) 10 mV/a 1.02 mV/(m/s2) Measurement Range ± 500 g pk ± 4905 m/s<sup>2</sup> pk except where noted below. More than one option may be used. Frequency Range(± 5 %) 1 to 10,000 Hz 1 to 10,000 Hz [3] M - Metric Mount Frequency Range(± 10 %) 0.6 to 15,000 Hz 0.6 to 15,000 Hz Supplied Accessory: Model M039A20 Allen wrench, 1.5mm hex (1) Frequency Range(± 3 dB) 0.3 to 25.000 Hz 0.3 to 25,000 Hz [3] Supplied Accessory: Model M081B36 Insulated cap screw, M2x0.4 thd x 3/8" long (for Model Resonant Frequency ≥ 50 kHz ≥ 50 kHz M357B06) (1) Broadband Resolution(1 to 10,000 Hz) .004 g rms .039 m/s<sup>2</sup> rms [1] [4] Non-Linearity ≤1% ≤1% [5] Transverse Sensitivity ≤ 5 % ≤5% Environmental Overload Limit ± 5000 g pk ± 49,000 m/s2 pk Temperature Range(Operating) -73 to 163 °C -100 to 325 °F Temperature Coefficient of Sensitivity ≤ 0.009 %/°C ≤ 0.005 %/°F [1] Temperature Response See Graph See Graph [1] Base Strain Sensitivity ≤ .02 g/με ≤ .196 (m/s²)/µε NOTES: Electrical [1] Typical. Excitation Voltage 19 to 30 VDC 19 to 30 VDC [2] Only when using off ground washer. Constant Current Excitation 2 to 20 mA 2 to 20 mA [3] When used with off ground washer, high frequency specification is typically 2 kHz less on Output Impedance ≤ 200 Ohm ≤ 200 Ohm 10% and 3 dB points. Output Bias Voltage 8 to 12 VDC 8 to 12 VDC [4] Zero-based, least-squares, straight line method. Discharge Time Constant .4 to 2.2 sec [5] Transverse sensitivity is typically ≤ 3%. .4 to 2.2 sec [6] See PCB Declaration of Conformance PS023 for details. Settling Time(within 10% of bias) ≤2 sec ≤ 2 sec [1] Spectral Noise(1 Hz) 750 µg/√Hz 7350 (um/sec<sup>2</sup>)/√Hz Spectral Noise(10 Hz) 150 µg/√Hz 1470 (um/sec<sup>2</sup>)/√Hz [1] Spectral Noise(100 Hz) 50 μg/√Hz 490 (µm/sec<sup>2</sup>)/√Hz [1] Spectral Noise(1 kHz) 25 µg/√Hz 245 (µm/sec<sup>2</sup>)/√Hz [1] [2][3] Electrical Isolation(Base) ≥ 10<sup>8</sup> Ohm ≥ 10<sup>8</sup> Ohm **Physical** Size (Height x Length x Width) 0.23 in x 0.65 in x 0.38 in 5.84 mm x 16.4 mm x 9.6 mm [1] Weight .065 oz 1.85 gm Sensing Geometry Shear Shear Housing Material Titanium Titanium Sealing Welded Hermetic Welded Hermetic **Flectrical Connector** 5-44 Coaxial 5-44 Coaxial **Electrical Connection Position** Side Side Mounting Through Hole Through Hole Typical Sensitivity Deviation vs Temperature Sensitivity Deviaition(%) SUPPLIED ACCESSORIES: Model 039A20 Allen wrench, 5/64" hex (1) 0.5 Model 081B36 Insulated cap screw, 2-56 thd x 3/8" long (for Model 357B06) (1) 0. Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1) -0.5 Engineer: GLB Sales: KWW Approved: BAM Spec Number: -100-60 -20 20 60 100140180220260300 Entered: AP

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.

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