Model Number Revision: B DC RESPONSE ACCELEROMETER ECN #: 44052 3741E12200G **ENGLISH** Performance **OPTIONAL VERSIONS** 2.04 mV/(m/s²) Sensitivity(± 3 %) 20 mV/a [6] Optional versions have identical specifications and accessories as listed for the standard Measurement Range ± 200 g pk ± 1962 m/s² pk model except where noted below. More than one option may be used. Frequency Range(± 3 dB) 0 to 1500 Hz 0 to 1500 Hz [7] [2] Frequency Range(± 3 dB) 0 to 3000 Hz 0 to 3000 Hz Phase Response(100 Hz) <10° <10° Broadband Resolution(0.5 to 100 Hz) .055 m/s2 rms [2] 5.6 mg rms Non-Linearity ≤ 1 % ≤ 1 % [8] Transverse Sensitivity ≤5% ≤ 5 % **Environmental** Overload Limit(Shock) ± 5000 g pk ± 49,050 m/s² pk NOTES: -54.0 to 121 °C Temperature Range(Operating) -65 to 250 °F [1]Offset tolerance is based on manufacturers supplied cable length. -65 to 250 °F Temperature Range(Storage) -54.0 to 121 °C [2]Typical. Temperature Coefficient of Sensitivity ± 3.0 % ± 3.0 % [3]Case and shield to mounting surface or cable leads. Zero a Offset Temperature Coefficient ± 2.0 % FSO ± 2.0 % FSO [5][4] [4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C) Base Strain Sensitivity(Measured at 250 με) .0035 g/με .035 (m/s²)/με [5]FSO = Full Scale Output over the Measurement Range (8VDC). **Electrical** [6]Measured at 100 Hz, 1 grms. **Excitation Voltage** 6 to 30 VDC 6 to 30 VDC [7]Minimum, verified with Čalibration data. [8]Least-squares, straight line method, % FSO. **Current Consumption** ≤ 10 mA ≤ 10 mA [9]See PCB Declaration of Conformance PS027 for details. Output Impedance ≤ 120 Ohm ≤ 120 Ohm Offset Voltage(0 g) ± 160 mVDC ± 160 mVDC [1] Common Mode Voltage(± 0.1 VDC) +2.5 VDC +2.5 VDC Spectral Noise(1 to 100 Hz) 800 µg/√Hz [2] 7848 (um/sec²)/√Hz Electrical Isolation(Case) >108 Ohm >10⁸ Ohm [3] **Physical SUPPLIED ACCESSORIES:** Housing Material Anodized Aluminum Anodized Aluminum Model 081A103 Mounting screw (2) Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1) Sealing Ероху Ероху Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2) Size (Height x Length x Width) 0.30 in x 1.00 in x .85 in 7.5 mm x 25.4 mm x 21.6 mm Weight(without cable) 0.35.07 9.92 gm [2] Electrical Connector Integral Cable Integral Cable **OPTIONAL ACCESSORIES: Electrical Connection Position** Side Side Model 080A208 Triaxial mounting block Cable Termination Pigtail Ends Pigtail Ends Cable Type 010 4-cond Shielded 010 4-cond Shielded Cable Length 10 ft 10 ft Entered: AP Engineer: JJD Sales: RM Approved: NJF Spec Number: Mounting Through Holes (2) Through Holes (2) Date: 4/9/2015 Date: 4/9/2015 Date: 4/9/2015 Date: 4/9/2015 60431

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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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