

Model Number
357B82

CHARGE OUTPUT ACCELEROMETER

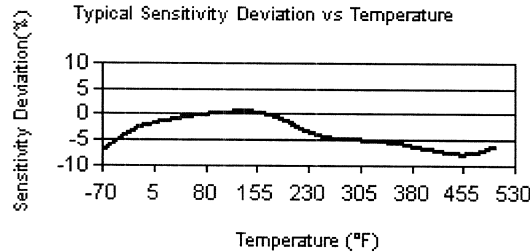
Revision: NR
ECN #:

| | ENGLISH | SI | |
|--|------------------------|--|-----|
| Performance | | | |
| Sensitivity ($\pm 5\%$) | 50 pC/g | 5.1 pC/(m/s ²) | |
| Measurement Range | ± 1000 g pk | ± 9810 m/s ² pk | |
| Frequency Range ($\pm 5\%$) | 6 kHz | 6 kHz | |
| Resonant Frequency | ≥ 20 kHz | ≥ 20 kHz | |
| Non-Linearity (1000 g, 9800 m/s ²) | $\leq 1\%$ | $\leq 1\%$ | |
| Transverse Sensitivity | $\leq 5\%$ | $\leq 5\%$ | [2] |
| Environmental | | | |
| Overload Limit (Shock) | ± 2000 g pk | $\pm 19,620$ m/s ² pk | |
| Temperature Range (Operating) | -65 to 500 °F | -54 to 260 °C | |
| Temperature Range (Maximum) | 550 °F | 288 °C | |
| Base Strain Sensitivity | .001 g/ $\mu\epsilon$ | .01 (m/s ²)/ $\mu\epsilon$ | [1] |
| Radiation Exposure Limit (Integrated Neutron Flux) | 1E10 N/cm ² | 1E10 N/cm ² | |
| Radiation Exposure Limit (Integrated Gamma Flux) | 1E8 rad | 1E8 rad | |
| Electrical | | | |
| Capacitance (Pin to Pin) | 2300 pF | 2300 pF | [1] |
| Capacitance (Pin to Case) | 30 pF | 30 pF | [1] |
| Capacitance (Unbalance Between Pins) | ≤ 2 pF | ≤ 2 pF | |
| Insulation Resistance (Pin to Pin at 70°F [21°C]) | ≥ 1 Gohm | ≥ 1 Gohm | |
| Insulation Resistance (Pin to Case at 70°F [21°C]) | ≥ 1 Gohm | ≥ 1 Gohm | |
| Insulation Resistance (Pin to Pin at 500°F [260°C]) | ≥ 10 Mohm | ≥ 10 Mohm | |
| Insulation Resistance (Pin to Case at 500°F [260°C]) | ≥ 50 Mohm | ≥ 50 Mohm | |
| Output Polarity | Differential | Differential | |
| Physical | | | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Hermetic | Hermetic | |
| Size (Height x Diameter) | 1.00 in x .75 in | 25.4 mm x 19 mm | |
| Weight (maximum) | 1.75 oz | 50 gm | [1] |
| Electrical Connector | 7/16-27 2-Pin | 7/16-27 2-Pin | |
| Electrical Connection Position | Side | Side | |
| Mounting | Through Holes (3) | Through Holes (3) | |

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.

NOTES:
[1] Typical.
[2] Transverse sensitivity is typically $\leq 3\%$.

SUPPLIED ACCESSORIES:
Model 081A99 Cap Screw (3)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)



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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|---------------|---------------|---------------|-----------------------|--------------|
| Entered: BLS | Engineer: BAR | Sales: CWR | Approved: [Signature] | Spec Number: |
| Date: 8/25/06 | Date: 8/25/06 | Date: 8/25/06 | Date: 8/25/06 | 27805 |

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