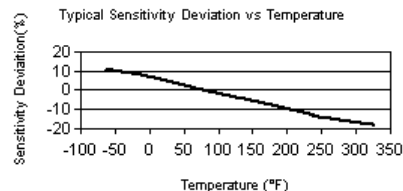


| Model Number<br>356A01               | ACCELEROMETER, ICP <sup>®</sup> , TRIAXIAL |                                  | Revision F<br>ECN #: 35759                                                                                                                                                         |
|--------------------------------------|--------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Performance</b>                   | <b>ENGLISH</b>                             | <b>SI</b>                        | <b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) |
| Sensitivity (±20 %)                  | 5 mV/g                                     | 0.51 mV/(m/s <sup>2</sup> )      | <b>HT</b> - High temperature, extends normal operation temperatures                                                                                                                |
| Measurement Range                    | ±1000 g pk                                 | ±9810 m/s <sup>2</sup> pk        | Temperature Range (Operating) -65 to +325 °F -54 to +163 °C                                                                                                                        |
| Frequency Range (±5 %) (y or z axis) | 2 to 8000 Hz                               | 2 to 8000 Hz                     | <b>W</b> - Water Resistant Cable                                                                                                                                                   |
| Frequency Range (±5 %) (x axis)      | 2 to 5000 Hz                               | 2 to 5000 Hz                     | Electrical Connector Sealed Integral Cable Sealed Integral Cable                                                                                                                   |
| Frequency Range (+1 dB) (x axis)     | ≥8 kHz                                     | ≥8 kHz                           |                                                                                                                                                                                    |
| Resonant Frequency                   | ≥50 kHz                                    | ≥50 kHz                          |                                                                                                                                                                                    |
| Broadband Resolution (1 to 10000 Hz) | 0.003 g rms                                | 0.03 m/s <sup>2</sup> rms        | <b>Notes</b>                                                                                                                                                                       |
| Non-Linearity                        | ≤1 %                                       | ≤1 %                             | [1] Typical.                                                                                                                                                                       |
| Transverse Sensitivity               | ≤5 %                                       | ≤5 %                             | [2] 250° F to 325° F data valid with HT option only.                                                                                                                               |
| <b>Environmental</b>                 |                                            |                                  | [3] Zero-based, least-squares, straight line method.                                                                                                                               |
| Overload Limit (Shock)               | ±10000 g pk                                | ±98100 m/s <sup>2</sup> pk       | [4] See PCB Declaration of Conformance PS023 for details.                                                                                                                          |
| Temperature Range (Operating)        | -65 to +250 °F                             | -54 to +121 °C                   |                                                                                                                                                                                    |
| Temperature Response                 | See Graph                                  | See Graph                        | <b>Supplied Accessories</b>                                                                                                                                                        |
| <b>Electrical</b>                    |                                            |                                  | 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)                                                                                                        |
| Excitation Voltage                   | 18 to 30 VDC                               | 18 to 30 VDC                     | 080A109 Petro Wax (1)                                                                                                                                                              |
| Constant Current Excitation          | 2 to 20 mA                                 | 2 to 20 mA                       | 080A90 Quick Bonding Gel (1)                                                                                                                                                       |
| Output Impedance                     | ≤200 ohm                                   | ≤200 ohm                         | ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)                                                                                                |
| Output Bias Voltage                  | 7 to 11 VDC                                | 7 to 11 VDC                      |                                                                                                                                                                                    |
| Discharge Time Constant              | 0.24 to 1.0 sec                            | 0.24 to 1.0 sec                  |                                                                                                                                                                                    |
| Settling Time (within 10% of bias)   | <3 sec                                     | <3 sec                           |                                                                                                                                                                                    |
| Spectral Noise (1 Hz)                | 1200 µg/√Hz                                | 11772 (µm/sec <sup>2</sup> )/√Hz |                                                                                                                                                                                    |
| Spectral Noise (10 Hz)               | 300 µg/√Hz                                 | 2943 (µm/sec <sup>2</sup> )/√Hz  |                                                                                                                                                                                    |
| Spectral Noise (100 Hz)              | 100 µg/√Hz                                 | 981 (µm/sec <sup>2</sup> )/√Hz   |                                                                                                                                                                                    |
| Spectral Noise (1 kHz)               | 30 µg/√Hz                                  | 294 (µm/sec <sup>2</sup> )/√Hz   |                                                                                                                                                                                    |
| <b>Physical</b>                      |                                            |                                  |                                                                                                                                                                                    |
| Sensing Element                      | Ceramic                                    | Ceramic                          |                                                                                                                                                                                    |
| Sensing Geometry                     | Shear                                      | Shear                            |                                                                                                                                                                                    |
| Housing Material                     | Titanium                                   | Titanium                         |                                                                                                                                                                                    |
| Sealing                              | Hermetic                                   | Hermetic                         |                                                                                                                                                                                    |
| Size (Height x Length x Width)       | 0.25 in x 0.25 in x 0.25 in                | 6.35 mm x 6.35 mm x 6.35 mm      |                                                                                                                                                                                    |
| Weight (without cable)               | 0.04 oz                                    | 1.0 gm                           |                                                                                                                                                                                    |
| Electrical Connector                 | Integral Cable                             | Integral Cable                   |                                                                                                                                                                                    |
| Electrical Connection Position       | Side                                       | Side                             |                                                                                                                                                                                    |
| Cable Length                         | 5 ft                                       | 1.5 m                            |                                                                                                                                                                                    |
| Cable Type                           | 034 4-cond Shielded                        | 034 4-cond Shielded              |                                                                                                                                                                                    |
| Mounting                             | Adhesive                                   | Adhesive                         |                                                                                                                                                                                    |



|                  |                  |                  |                  |              |
|------------------|------------------|------------------|------------------|--------------|
| Entered: LLH     | Engineer: SDS    | Sales: WDC       | Approved: JJB    | Spec Number: |
| Date: 05/13/2011 | Date: 05/10/2011 | Date: 05/12/2011 | Date: 05/12/2011 | 21822        |



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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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