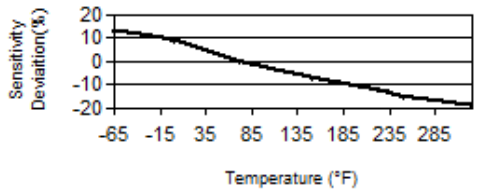
| Model Number | TRIAXIAL ICP® ACCELEROMETER | Revision: NR |
|---|---|---|
| **356A04** | | ECN #: 47946 |

| **Performance** | **ENGLISH** | **SI** | |
|---|---|---|---|
| Sensitivity(± 20 %) | 1 mV/g | 0.10 mV/(m/s²) | |
| Measurement Range | ± 5000 g pk | ± 49,050 m/s² pk | |
| Frequency Range(+/-5 %) | 1.2 to 6000 Hz | 1.2 to 6000 Hz | |
| Frequency Range(+/-10 %) | 1 to 10,000 Hz | 1 to 10,000 Hz | |
| Resonant Frequency | ≥ 50 kHz | ≥ 50 kHz | |
| Broadband Resolution(1 to 10,000 Hz) | 0.02 g rms | 0.2 m/s² rms | [1] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [2] |
| Transverse Sensitivity | ≤ 5 % | ≤ 5 % | |
| **Environmental** | | | |
| Overload Limit(Shock) | ± 10,000 g pk | ± 98,100 m/s² pk | |
| Temperature Range(Operating) | -65 to +325 °F | -54 to +163 °C | |
| Temperature Response | See Graph | See Graph | [1] |
| Base Strain Sensitivity | 0.05 g/με | 0.5 (m/s²)/με | [1] |
| **Electrical** | | | |
| Excitation Voltage | 18 to 30 VDC | 18 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | ≤ 100 Ohm | ≤ 100 Ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Discharge Time Constant | 0.4 to 1.2 sec | 0.4 to 1.2 sec | |
| Settling Time(within 10% of bias) | <3 sec | <3 sec | |
| Spectral Noise(1 Hz) | 4.7 mg/√Hz | 46 mm/s²/√Hz | [1] |
| Spectral Noise(10 Hz) | 1.2 mg/√Hz | 11.8 mm/s²/√Hz | [1] |
| Spectral Noise(100 Hz) | 0.48 mg/√Hz | 4.71 mm/s²/√Hz | [1] |
| Spectral Noise(1 kHz) | 0.17 mg/√Hz | 1.67 mm/s²/√Hz | [1] |
| Spectral Noise(10 kHz) | 0.13 mg/√Hz | 1.28 mm/s²/√Hz | [1] |
| **Physical** | | | |
| 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) | 0.03 oz | 0.8 gm | [1] |
| Electrical Connector | Integral Cable | Integral Cable | |
| Electrical Connection Position | Side | Side | |
| Cable Termination | 1/4-28 4-Pin Jack | 1/4-28 4-Pin Jack | |
| Cable Length | 5 ft | 1.5 m | |
| Cable Type | 019 4-cond Shielded | 019 4-cond Shielded | |
| Mounting | Adhesive | Adhesive | |

CE [3]

Typical Sensitivity Deviation vs Temperature




*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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**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] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)
Model 080A109 Petro Wax (1)
Model 080A90 Quick Bonding Gel (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

| Entered: LK | Engineer: LAB | Sales: WDC | Approved: NJF | Spec Number: |
|---|---|---|---|---|
| Date: 5/25/2018 | Date: 5/25/2018 | Date: 5/25/2018 | Date: 5/25/2018 | **67484** |


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