

Model Number
356B18

ACCELEROMETER, ICP®, TRIAXIAL

Revision G
ECN #: 26468

Performance

Sensitivity ($\pm 10\%$)
Measurement Range
Frequency Range ($\pm 5\%$)
Frequency Range ($\pm 10\%$)
Resonant Frequency
Phase Response ($\pm 5^\circ$) (at 70°F [21°C])
Broadband Resolution (1 to 10000 Hz)
Non-Linearity
Transverse Sensitivity

ENGLISH

1000 mV/g
 ± 5 g pk
0.5 to 3000 Hz
0.3 to 5000 Hz
 ≥ 20 kHz
2 to 2000 Hz
0.00005 g rms
 $\leq 1\%$
 $\leq 5\%$

SI

102 mV/(m/s²)
 ± 49 m/s² pk
0.5 to 3000 Hz
0.3 to 5000 Hz
 ≥ 20 kHz
2 to 2000 Hz
0.00005 m/s² rms
 $\leq 1\%$
 $\leq 5\%$

Environmental

Overload Limit (Shock)
Temperature Range (Operating)
Temperature Response
Base Strain Sensitivity

± 5000 g pk
-20 to +170 °F
See Graph
0.0007 g/ μ ε

± 5000 g pk
-29 to +77 °C
See Graph
0.007 (m/s²)/ μ ε

Electrical

Excitation Voltage
Constant Current Excitation
Output Impedance
Output Bias Voltage
Discharge Time Constant
Settling Time (within 10% of bias)
Spectral Noise (1 Hz)
Spectral Noise (10 Hz)
Spectral Noise (100 Hz)
Spectral Noise (1 kHz)

20 to 30 VDC
2 to 20 mA
 ≤ 600 ohm
8 to 12 VDC
0.8 to 3.0 sec
 < 12 sec
11.4 μ g/ \sqrt Hz
4.0 μ g/ \sqrt Hz
1.2 μ g/ \sqrt Hz
0.4 μ g/ \sqrt Hz

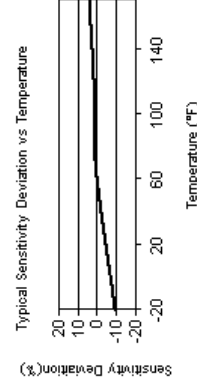
20 to 30 VDC
2 to 20 mA
 ≤ 600 ohm
8 to 12 VDC
0.8 to 3.0 sec
 < 12 sec
112 (μ m/s²)/ \sqrt Hz
39 (μ m/s²)/ \sqrt Hz
12 (μ m/s²)/ \sqrt Hz
4.4 (μ m/s²)/ \sqrt Hz

Physical

Sensing Element
Sensing Geometry
Housing Material
Sealing
Size (Height x Length x Width)
Weight
Electrical Connector
Electrical Connection Position
Mounting Thread

Ceramic
Shear
Anodized Aluminum
Epoxy
0.80 in x 1.03 in x
0.80 in
0.88 oz
1/4-28 4-Pin
Side
10-32 Female

Ceramic
Shear
Anodized Aluminum
Epoxy
20.3 mm x 26.1 mm x
20.3 mm
25 gm
1/4-28 4-Pin
Side
10-32 Female



Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option may be used.)

A - Adhesive Mount Mounting Thread None - Adhesive Mount Only
None - Adhesive Mount Only
Supplied Accessory: Model 080A109 Petro Wax one square, 1" x 1" x 0.25" for accel. adhesive mount
Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces)
J - Ground Isolated (Base) $> 10^8$ ohm $> 10^8$ ohm

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format
TLC - TEDS LMS International - Automotive Format
TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

Output Bias Voltage 8.5 to 13 VDC 8.5 to 13 VDC

Notes

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

Supplied Accessories

080A109 Petro Wax (1)
080A68 Adhesive mounting base (for Models 356B07 and 356B08) (1)
081B05 Mounting Stud (10-32 to 10-32) (1)
ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

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All specifications are at room temperature unless otherwise specified.
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