

Model Number
355B02

ICP® ACCELEROMETER

Revision: H
ECN #: 29040

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4900 m/s ² pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.6 to 12,000 Hz	0.6 to 12,000 Hz	
Frequency Range(± 3 dB)	0.3 to 17,000 Hz	0.3 to 17,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit	± 5000 g pk	± 49,000 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.05 g/με	0.49 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	22 to 30 VDC	22 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	7 to 15 VDC	7 to 15 VDC	
Discharge Time Constant	0.5 to 2 sec	0.5 to 2 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	90 μg/√Hz	880 (μm/s ²)/√Hz	[1]
Spectral Noise(10 Hz)	15 μg/√Hz	147 (μm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	5 μg/√Hz	49 (μm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	3 μg/√Hz	29 (μm/s ²)/√Hz	[1]
Electrical Isolation(Base)	>10 ⁸ ohm	>10 ⁸ ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.40 in x 0.95 in x 0.63 in	10.2 mm x 24.1 mm x 16.0 mm	
Weight	0.35 oz	10 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	

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.

A - Adhesive Mount
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

M - Metric Mount
Supplied Accessory : Model M039A22 Allen wrench for use with M3 thread (1) replaces Model 039A22
Supplied Accessory : Model M081B45 off ground screw assembly (1) replaces Model 081B45

W - Water Resistant Cable

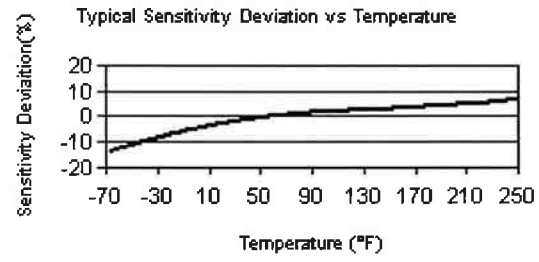
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

NOTES:

[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] Transverse sensitivity is typically ≤ 3%.
[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 039A22 Allen wrench, 7/64" hex (1)
Model 080A109 Petro Wax (1)
Model 081B45 off ground screw assembly (1)
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: <i>BLS</i>	Engineer: <i>JF</i>	Sales: <i>WDC</i>	Approved: <i>BM</i>	Spec Number:
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