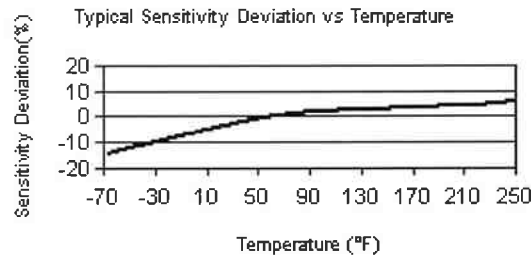


Model Number  
355B12

# ICP® ACCELEROMETER

Revision: G  
ECN #: 30236

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	
Measurement Range	± 500 g pk	± 4905 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.6 to 15,000 Hz	0.6 to 15,000 Hz	[3]
Frequency Range(± 3 dB)	0.3 to 25,000 Hz	0.3 to 25,000 Hz	[3]
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[5]
<b>Environmental</b>			
Overload Limit	± 10,000 g pk	± 98,100 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.05 g/με	≤ 0.5 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Excitation Voltage	19 to 30 VDC	19 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	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time(within 10% of bias)	≤ 5 sec	≤ 5 sec	
Spectral Noise(1 Hz)	190 μg/√Hz	1860 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	30 μg/√Hz	294 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	12 μg/√Hz	118 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	5 μg/√Hz	49 (μm/sec <sup>2</sup> )/√Hz	[1]
Electrical Isolation(Base)	≥ 10 <sup>8</sup> ohm	≥ 10 <sup>8</sup> ohm	[2][3]
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Height x Length x Width)	0.23 in x 0.65 in x 0.38 in	5.84 mm x 16.4 mm x 9.6 mm	
Weight	0.08 oz	2.3 gm	[1]
Electrical Connector	5-44 Coaxial	5-44 Coaxial	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	



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.

### M - Metric Mount

Supplied Accessory : Model M039A20 Allen wrench, 1.5mm hex (1)  
Supplied Accessory : Model M081B36 Insulated cap screw, M2x0.4 thd x 3/8" long (for Model M357B06) (1)

### NOTES:

- [1] Typical.
- [2] Only when using off ground washer.
- [3] When used with off ground washer, high frequency specification is typically 2 kHz less on 10% and 3 dB points.
- [4] Zero-based, least-squares, straight line method.
- [5] Transverse sensitivity is typically ≤ 3%.
- [6] See PCB Declaration of Conformance PS023 for details.

### SUPPLIED ACCESSORIES:

Model 039A20 Allen wrench, 5/64" hex (1)  
Model 081B36 Insulated cap screw, 2-56 thd x 3/8" long (for Model 357B06) (1)  
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: <i>JH</i>	Engineer: <i>BAM</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>3/10/09</i>	Date: <i>2/25/09</i>	Date: <i>2/25/09</i>	Date: <i>2/27/09</i>	<b>13472</b>



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