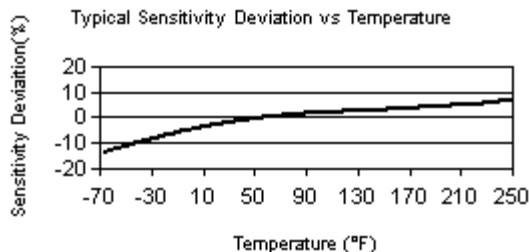


Model Number  
352C67

# ICP® ACCELEROMETER

Revision: N  
ECN #: 44362

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	
Measurement Range	± 50 g pk	± 491 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	0.5 to 10,000 Hz	0.5 to 10,000 Hz	
Frequency Range(± 10 %)	0.3 to 12,000 Hz	0.3 to 12,000 Hz	
Frequency Range(± 3 dB)	0.2 to 20,000 Hz	0.2 to 20,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Phase Response(± 5 °)(at 70°F [21°C])	2 to 6000 Hz	2 to 6000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.00016 g rms	0.0015 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
<b>Environmental</b>			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C	[2]
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	<0.005 g/με	<0.05 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 300 Ohm	≤ 300 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 2.4 sec	0.8 to 2.4 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	60 μg/√Hz	588 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	16 μg/√Hz	157 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	5 μg/√Hz	49 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	1.5 μg/√Hz	14.7 (μm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Size (Height x Hex)	0.58 in x 9/32 in	14.7 mm x 9/32 in	
Weight	0.070 oz	2.0 gm	[1]
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Plug	10-32 Coaxial Plug	
Electrical Connection Position	Top	Top	
Cable Length	10 ft	3 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	



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.

**A - Adhesive Mount** [6]  
Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15

HT - High temperature, extends normal operation temperatures		
Frequency Range(5 %)	5 to 10,000 Hz	5 to 10,000 Hz
Frequency Range(10 %)	3 to 12,000 Hz	3 to 12,000 Hz
Frequency Range(3 dB)	2 to 20,000 Hz	2 to 20,000 Hz
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s <sup>2</sup> rms
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C
Discharge Time Constant	0.08 to 0.24 sec	0.08 to 0.24 sec
Spectral Noise(1 Hz)	75 μg/√Hz	736 (μm/sec <sup>2</sup> )/√Hz
Spectral Noise(10 Hz)	25 μg/√Hz	245 (μm/sec <sup>2</sup> )/√Hz

J - Ground Isolated		
Frequency Range(5 %)	0.5 to 8000 Hz	0.5 to 8000 Hz
Frequency Range(10 %)	0.3 to 10,000 Hz	0.3 to 10,000 Hz
Frequency Range(3 dB)	0.2 to 16,000 Hz	0.2 to 16,000 Hz
Resonant Frequency	≥ 30 kHz	≥ 30 kHz
Electrical Isolation(Base)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm
Size - Hex x Height	3/8 in x 0.64 in	3/8 in x 16.3 mm
Weight	0.1 oz	2.8 gm

**M - Metric Mount**  
Mounting Thread M3 x 0.50 Male M3 x 0.50 Male  
Supplied Accessory : Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15

W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Top	Top
Cable Type	018 Coaxial	018 Coaxial

**NOTES:**

- [1]Typical.
- [2]200°F to 250°F data valid with HT option only.
- [3]Zero-based, least-squares, straight line method.
- [4]Transverse sensitivity is typically ≤ 3%.
- [5]See PCB Declaration of Conformance PS135 for details.
- [6]Mounting stud removed, adhesive mounting base not required.

**SUPPLIED ACCESSORIES:**

- Model 080A109 Petro Wax (1)
- Model 080A15 Adhesive Mounting Base (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point).

Entered: JM	Engineer: NJF	Sales: RWM	Approved: NJF	Spec Number:
Date: 6/29/2015	Date: 6/29/2015	Date: 6/29/2015	Date: 6/29/2015	8338

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