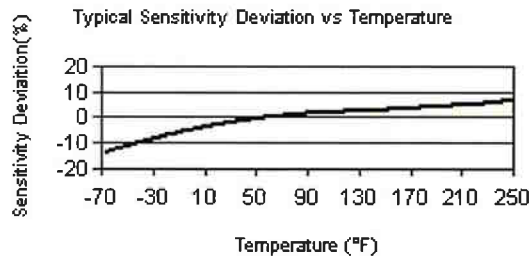


Model Number
352C18

ICP® ACCELEROMETER

Revision: D
ECN #: 31827

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	1 to 12,000 Hz	1 to 12,000 Hz	
Frequency Range(± 10 %)	0.7 to 18,000 Hz	0.7 to 18,000 Hz	
Frequency Range(± 3 dB)	0.35 to 25,000 Hz	0.35 to 25,000 Hz	
Resonant Frequency	≥ 50 kHz	≥ 50 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	± 10,000 g pk	± 98,100 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	<0.006 g/με	<0.06 (m/s ²)/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	
Spectral Noise(1 Hz)	220 μg/√Hz	2158 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	50 μg/√Hz	490 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	10 μg/√Hz	98 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	5 μg/√Hz	49 (μm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	9/32 in x 0.73 in	9/32 in x 18.5 mm	
Weight	0.07 oz	2.0 gm	[1]
Electrical Connector	10-32 Coaxial Plug	10-32 Coaxial Plug	
Electrical Connection Position	Top	Top	
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.

Option	Frequency Range(± 5 %)	Frequency Range(± 10 %)	Frequency Range(± 3 dB)	Resonant Frequency	Electrical Isolation(Base)	Size - Hex x Height	Weight
A - Adhesive Mount Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15							
J - Ground Isolated	1 to 10,000 Hz	0.7 to 15,000 Hz	0.35 to 20,000 Hz	≥ 40 kHz	≥ 10 ⁸ ohm	3/8 in x 0.75 in	0.1 oz
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					

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

Entered: ECB	Engineer: BAN	Sales: WDC	Approved: JJB	Spec Number:
Date: 12/10/09	Date: 12/10/09	Date: 12/10/09	Date: 12/09/10	12571

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