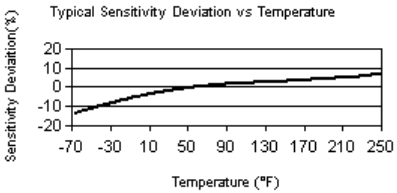
Model Number 352C68	ACCELEROMETER, ICP®	Revision N ECN #: 31827

Performance	ENGLISH	SI	
Sensitivity (±10 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	±50 g pk	±491 m/s² pk	
Frequency Range (±5 %)	0.5 to 10000 Hz	0.5 to 10000 Hz	
Frequency Range (±10 %)	0.3 to 12000 Hz	0.3 to 12000 Hz	
Frequency Range (±3 dB)	0.2 to 20000 Hz	0.2 to 20000 Hz	
Resonant Frequency	≥35 kHz	≥35 kHz	
Phase Response (±5 °) (at 70&#176F [21&#176C])	2 to 6000 Hz	2 to 6000 Hz	
Broadband Resolution (1 to 10000 Hz)	0.00016 g rms	0.0015 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[3]
Transverse Sensitivity	≤5 %	≤5 %	[4]
Environmental			
Overload Limit (Shock)	±5000 g pk	±49050 m/s² pk	
Temperature Range (Operating)	-65 to +200 °F	-53 to +93 °C	[2]
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤0.005 g/με	≤0.05 (m/s²)/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	≤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/sec²/√Hz	[1]
Spectral Noise (10 Hz)	16 μg/√Hz	157 (μm/sec²/√Hz	[1]
Spectral Noise (100 Hz)	5 μg/√Hz	49 (μm/sec²/√Hz	[1]
Spectral Noise (1 kHz)	1.5 μg/√Hz	14.7 (μm/sec²/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	9/32 in x 0.73 in	9/32 in x 18.5 mm	
Weight	0.070 oz	2.0 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
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	

CE[5]



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.

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

A - Adhesive Mount
Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces) replaces Model 080A15

HT - High temperature, extends normal operation temperatures

Frequency Range (5 %)	5 to 10000 Hz	5 to 10000 Hz
Frequency Range (10 %)	3 to 12000 Hz	3 to 12000 Hz
Frequency Range (3 dB)	2 to 20000 Hz	2 to 20000 Hz
Broadband Resolution (1 to 10000 Hz)	0.0002 g rms	0.002 m/s² 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/sec²/√Hz
Spectral Noise (10 Hz)	25 μg/√Hz	245 (μm/sec²/√Hz

J - Ground Isolated

Frequency Range (5 %)	0.5 to 8000 Hz	0.5 to 8000 Hz
Frequency Range (10 %)	0.3 to 10000 Hz	0.3 to 10000 Hz
Frequency Range (3 dB)	0.2 to 16000 Hz	0.2 to 16000 Hz
Resonant Frequency	≥30 kHz	≥30 kHz
Electrical Isolation (Base)	≥10^8 ohm	≥10^8 ohm
Size (Hex x Height)	3/8 in x 0.75 in	3/8 in x 19.1 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 Metric adhesive base, 0.31" hex x 0.125" thk, M3 x 0.50 thd, aluminum with insulating hardcoat finish replaces Model 080A15

W - Water Resistant Cable

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

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 PS023 for details.

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

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