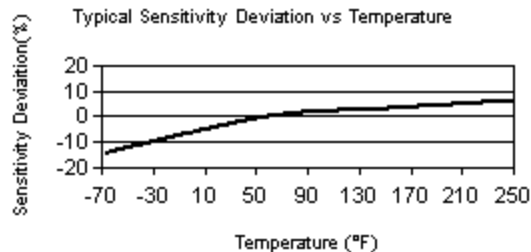


Model Number  
352M221

# ICP® ACCELEROMETER

Revision: A  
ECN #: 44460

Performance	ENGLISH	SI	
Sensitivity(± 15 %)	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(± 10 %)	.5 to 10,000 Hz	.5 to 10,000 Hz	
Frequency Range(± 5 %)	1 to 6000 Hz	1 to 6000 Hz	
Electrical Filter Corner Frequency	>15 kHz	>15 kHz	[1]
Electrical Filter Roll-off	12 dB/octave	12 dB/octave	[1]
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	.001 g rms	.01 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
<b>Environmental</b>			
Overload Limit(Shock)	± 7000 g pk	± 68,670 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[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	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.4 to 2.5 sec	0.4 to 2.5 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	230 µg/√Hz	2256 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	38 µg/√Hz	373 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	19 µg/√Hz	186 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	10 µg/√Hz	98 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Size (Height x Hex)	0.71 in x 0.44 in	18 mm x 11.1 mm	
Weight(without cable)	0.22 oz	6.3 gm	[1]
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable	[4]
Electrical Connection Position	Side	Side	
Cable Termination	Pigtail Ends	Pigtail Ends	
Cable Length	40 ft	12.2 m	
Cable Type	SB-42275 Twisted Shielded Pair	SB-42275 Twisted Shielded Pair	
Mounting Thread	10-32 Female	10-32 Female	



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.

**NOTES:**

- [1] Typical.
- [2] Zero-based, least-squares, straight line method.
- [3] Transverse sensitivity is typically ≤ 3%.
- [4] Sensor and Cable hydrotested without connector to 500 psi [3.3 MPa].
- [5] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

- Model 081B05 Mounting Stud (10-32 to 10-32) (1)
- Model ACS-130 5Hz to highest spec 10k Hz (1)
- Model ATS-6 Hydro test (sensor/cable pressurized in water environment) (1)

Entered: JM	Engineer: DK	Sales: RWM	Approved: BAM	Spec Number:
Date: 7/31/2015	Date: 7/31/2015	Date: 7/31/2015	Date: 7/31/2015	61398



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