

Model Number
352A21

ICP® ACCELEROMETER

Revision: J
ECN #: 42346

Performance

	ENGLISH	SI	
Sensitivity(± 15 %)	10 mV/g	1.0 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4900 m/s ² pk	
Frequency Range(± 5 %)	1.0 to 10,000 Hz	1.0 to 10,000 Hz	
Frequency Range(± 10 %)	0.7 to 13,000 Hz	0.7 to 13,000 Hz	
Frequency Range(± 3 dB)	0.3 to 20,000 Hz	0.3 to 20,000 Hz	
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.004 g rms	0.04 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

Environmental

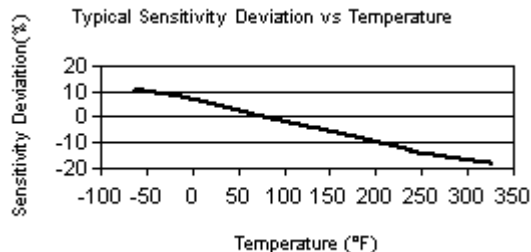
Overload Limit(Shock)	± 10,000 g pk	± 98,000 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	

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	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	1.0 to 3.5 sec	1.0 to 3.5 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	800 µg/√Hz	7840 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	250 µg/√Hz	2450 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	60 µg/√Hz	590 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	50 µg/√Hz	490 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 kHz)	40 µg/√Hz	392 (µm/sec ²)/√Hz	[1]

Physical

Size (Height x Length x Width)	0.14 in x 0.45 in x 0.25 in	3.6 mm x 11.4 mm x 6.4 mm	
Weight	0.02 oz	0.6 gm	[1]
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Epoxy	Epoxy	
Electrical Connector	3-56 Coaxial Jack	3-56 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	



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.

HT - High temperature, extends normal operation temperatures
Temperature Range(Operating) -65 to 325 °F -54 to 163 °C

NOTES:

- [1] Typical.
- [2] Zero-based, least-squares, straight line method.
- [3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

- Model 030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug. (1)
- Model 039A27 One-piece removal tool for Models 352C22, 357C10, 352A21, & 357A09 (1)
- Model 080A109 Petro Wax (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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