Ν	1odel	Number		
352A21				

## **ICP® ACCELEROMETER**

Revision: J

ECN #: 42346

Performance	<u>ENGLISH</u>	<u>SI</u>	
Sensitivity(± 15 %)	10 mV/g	1.0 mV/(m/s²)	
Measurement Range	± 500 g pk	± 4900 m/s² 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 <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,000 m/s² 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 <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	250 μg/√Hz	2450 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	60 μg/√Hz	590 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	50 μg/√Hz	490 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 kHz)	40 µg/√Hz	392 (µm/sec <sup>2</sup> )/√Hz	[1]
Physical	1.3	002 (p, 000 ),	
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	Ероху	
Electrical Connector	3-56 Coaxial Jack	3-56 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	
	्र Typical Sensitivi	ty Deviation vs Temperature	
	20 Typical sensitivi		
	ig 20 ⊤		$\neg$
	별 10 <del>  ~~~~</del>	<b>-</b>	$\dashv$
	å 0 <del> </del>		$\dashv$
	≥ -10 <del> </del>		-

## **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)

-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)

Entered: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
Date: 12/16/2013	Date: 12/16/2013	Date: 12/16/2013	Date: 12/16/2013	11544



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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.

-100 -50 0 50 100 150 200 250 300 350 Temperature (°F)

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