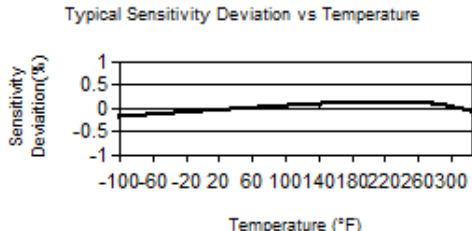




Model Number 320C53	ICP® ACCELEROMETER		Revision: B ECN #: 46623	
Performance	ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 20 %)	1 mV/g	0.102 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. M - Metric Mount Supplied Accessory : Model M039A20 Allen wrench, 1.5mm hex (1) Supplied Accessory : Model M081B36 Insulated cap screw, M2x0.4 thd x 3/8" long (for Model M357B06) (1)	
Measurement Range	± 5000 g pk	± 49,050 m/s ² pk		
Frequency Range(± 5 %)	1 to 5000 Hz	1 to 5000 Hz		
Frequency Range(± 10 %)	0.6 to 10,000 Hz	0.6 to 10,000 Hz		[3]
Frequency Range(± 3 dB)	0.3 to 20,000 Hz	0.3 to 20,000 Hz		[3]
Filter Type	single pole	single pole		
Electrical Filter Corner Frequency	≥ 20 kHz	≥ 20 kHz		
Resonant Frequency	≥ 50 kHz	≥ 50 kHz		
Broadband Resolution(1 to 10,000 Hz)	0.04 g rms	0.39 m/s ² rms		[1]
Non-Linearity	≤ 1 %	≤ 1 %		[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %		[5]
Environmental				
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk		
Temperature Range(Operating)	-100 to 325 °F	-73 to 163 °C		
Temperature Coefficient of Sensitivity	≤ 0.005 %/°F	≤ 0.009 %/°C		
Temperature Response	See Graph	See Graph	[1]	
Base Strain Sensitivity	≤ .2 g/με	≤ 2 (m/s ²)/με	[1]	
Electrical				
Excitation Voltage	19 to 30 VDC	19 to 30 VDC		
Constant Current Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance	≤ 200 Ohm	≤ 200 Ohm		
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		
Discharge Time Constant	0.4 to 2.2 sec	0.4 to 2.2 sec		
Settling Time(within 10% of bias)	≤ 10 sec	≤ 10 sec		
Spectral Noise(1 Hz)	7500 μg/√Hz	73,500 (μm/sec ²)/√Hz	[1]	
Spectral Noise(10 Hz)	1500 μg/√Hz	14,700 (μm/sec ²)/√Hz	[1]	
Spectral Noise(100 Hz)	500 μg/√Hz	4905 (μm/sec ²)/√Hz	[1]	
Spectral Noise(1 kHz)	250 μg/√Hz	2450 (μm/sec ²)/√Hz	[1]	
Electrical Isolation(Base)	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	[2][3]	
Physical				
Size (Height x Length x Width)	0.23 in x 0.65 in x 0.38 in	5.84 mm x 16.4 mm x 9.6 mm		
Weight	.065 oz	1.85 gm	[1]	
Sensing Element	UHT-12™	UHT-12™		
Sensing Geometry	Shear	Shear		
Housing Material	Titanium	Titanium		
Sealing	Hermetic	Hermetic		
Electrical Connector	5-44 Coaxial	5-44 Coaxial		
Electrical Connection Position	Side	Side		
Mounting	Through Hole	Through Hole		
	Typical Sensitivity Deviation vs Temperature 			
	 [6]			
<p><i>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.</i></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>				
<p>NOTES: [1] Typical. [2] Only when using off ground washer. [3] When used with off ground washer, high frequency specification is typically 2 kHz less on 10% and 3 dB points. [4] Zero-based, least-squares, straight line method. [5] Transverse sensitivity is typically ≤ 3%. [6] See PCB Declaration of Conformance PS022 for details.</p>				
<p>SUPPLIED ACCESSORIES: Model 039A20 Allen wrench, 5/64" hex (1) Model 081B36 Insulated cap screw, 2-56 thd x 3/8" long (for Model 357B06) (1) Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)</p>				
Entered: LK	Engineer: GJR	Sales: JC	Approved: BAM	
Date: 3/30/2017	Date: 3/30/2017	Date: 3/30/2017	Date: 3/30/2017	
			Spec Number: 62127	
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