

Model Number 354A05	TRIAxIAL ICP® ACCELEROMETER		Revision: A ECN #: 46917	
Performance	ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 5 %)	100 mV/g	10.2 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.	
Measurement Range	± 50 g pk	± 491 m/s ² pk		
Frequency Range(± 5 %)	.4 to 5000 Hz	.4 to 5000 Hz		
Resonant Frequency	≥ 25 kHz	≥ 25 kHz		
Broadband Resolution(1 to 10,000 Hz)	0.0003 g rms	0.003 m/s ² rms		[1]
Non-Linearity	≤ 1 %	≤ 1 %		[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %		
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes		[3]
Environmental				
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk		
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		
Temperature Response	See Graph	See Graph		[1]
Base Strain Sensitivity	.003 g/με	.03 (m/s ²)/με		[1]
Electrical				
Excitation Voltage	24 to 30 VDC	24 to 30 VDC		
Constant Current Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance	≤ 100 Ohm	≤ 100 Ohm		
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		
Discharge Time Constant	1 to 2 sec	1 to 2 sec		
Settling Time(within 10% of bias)	<3 sec	<3 sec		
Spectral Noise(1 Hz)	55 μg/√Hz	540 (μm/sec ²)/√Hz	[1]	
Spectral Noise(10 Hz)	15 μg/√Hz	147 (μm/sec ²)/√Hz	[1]	
Spectral Noise(100 Hz)	6 μg/√Hz	59 (μm/sec ²)/√Hz	[1]	
Spectral Noise(1 kHz)	3 μg/√Hz	29 (μm/sec ²)/√Hz	[1]	
Spectral Noise(10 kHz)	2 μg/√Hz	20 (μm/sec ²)/√Hz	[1]	
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm		
Physical				
Sensing Element	Ceramic	Ceramic		
Sensing Geometry	Shear	Shear		
Housing Material	Titanium	Titanium		
Sealing	Hermetic	Hermetic		
Size (Height x Length x Width)	.38 in x .82 in x .82 in	9.7 mm x 20.7 mm x 20.7 mm		
Weight	0.51 oz	14.5 gm	[1]	
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin		
Electrical Connection Position	Side	Side		
Mounting Screw	6 - 32	6 - 32		
<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>				
NOTES:				
<p>[1] Typical. [2] Zero-based, least-squares, straight line method. [3] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4 [4] See PCB Declaration of Conformance PS023 for details.</p>				
SUPPLIED ACCESSORIES:				
<p>Model 081A105 Mounting screw (6-32 x 1/2" schs 18-8) (1) Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)</p>				
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