

Model Number 354A05		TRIAxIAL ICP® ACCELEROMETER		Revision: B ECN #: 48470	
Performance		ENGLISH		SI	
Sensitivity(± 5 %)		100 mV/g		10.2 mV/(m/s²)	
Measurement Range		± 50 g pk		± 491 m/s² 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/s² rms	
Non-Linearity		≤ 1 %		≤ 1 %	
Transverse Sensitivity		≤ 5 %		≤ 5 %	
TEDS Compliant(Per IEEE 1451.4)		Yes		Yes	
Environmental					
Overload Limit(Shock)		± 5000 g pk		± 49,050 m/s² pk	
Temperature Range(Operating)		-65 to +200 °F		-54 to +93 °C	
Temperature Response		See Graph		See Graph	
Base Strain Sensitivity		.003 g/με		.03 (m/s²)/με	
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/sec²)/√Hz	
Spectral Noise(10 Hz)		15 µg/√Hz		147 (µm/sec²)/√Hz	
Spectral Noise(100 Hz)		6 µg/√Hz		59 (µm/sec²)/√Hz	
Spectral Noise(1 kHz)		3 µg/√Hz		29 (µm/sec²)/√Hz	
Spectral Noise(10 kHz)		2 µg/√Hz		20 (µm/sec²)/√Hz	
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	
Electrical Connector		1/4-28 4-Pin		1/4-28 4-Pin	
Electrical Connection Position		Side		Side	
Mounting Screw		6 - 32		6 - 32	
Typical Sensitivity Deviation vs Temperature					
CE [4]					
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. ICP® is a registered trademark of PCB Group, Inc.					
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. M - Metric Mount Supplied Accessory : Model M039A22 Allen wrench for use with M3 thread (1) replaces Model 039A22 Supplied Accessory : Model M081A103 Mounting screw and washer, M3 x 0.5 thread (1) replaces Model 081A105					
NOTES: [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.					
SUPPLIED ACCESSORIES: Model 039A22 Allen wrench, 7/64" hex 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)					
Entered: LK		Engineer: JJD		Sales: KK	
Approved: BAM		Spec Number:			
Date: 7/31/2018		Date: 7/31/2018		Date: 7/31/2018	
Date: 7/31/2018		Date: 7/31/2018		64871	
PCB PIEZOTRONICS™ 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com					