



MODELS

354A04, 354A05,
M354A04, & M354A05

CASE ISOLATED TRIAxIAL ICP[®] ACCELEROMETERS WITH TEDS

- TEDS 1.0, IEEE 1451.4
- Rugged and durable
 - Case isolated titanium housing
- Low outgassing & hermetically sealed for use under vacuum
- Easy installation
 - Thru-hole mount with supplied screw
 - No need for special isolation accessories



ALL MODELS ARE CASE ISOLATED FOR MOUNTING DIRECTLY ON TEST ITEM

Models 354A04 and 354A05 are case isolated, triaxial ICP[®] accelerometers weighing 0.51 oz (14.5 gm). The sensors are hermetically sealed, packaged in a titanium housing, and have a side-exit, 1/4-28 four pin connector and are thru-hole mounted with a supplied screw fastener, either 6-32 or M3 thread. All models are TEDS IEEE 1451.4 enabled for easy tracking and record keeping and also contain manufacturer, model, serial number, calibration date, sensitivity, frequency range, and measurement identification.

TYPICAL APPLICATIONS

- Flight and ground vibration testing
- Vibration measurements in the presence of electrical noise
- Environmental Stress Screening (ESS)
- Modal and structural analysis

SPECIFICATIONS				
Model	354A04 & M354A04		354A05 & M354A05	
	English:	SI:	English:	SI:
Performance				
Sensitivity (±5 %)	10 mV/g	1.02 mV/(m/s ²)	100 mV/g	10.2 mV/(m/s ²)
Measurement Range	±500 g pk	±4,905 m/s ² pk	±50 g pk	±491 m/s ² pk
Frequency Range (±5 %)	0.4 to 5,000 Hz	0.4 to 5,000 Hz	0.4 to 5,000 Hz	0.4 to 5,000 Hz
Resonant Frequency	≥25 kHz	≥25 kHz	≥25 kHz	≥25 kHz
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s ² rms	0.0003 g rms	0.003 m/s ² rms
Non-Linearity [Typical]	≤1 %	≤1 %	≤1 %	≤1 %
Transverse Sensitivity	≤5 %	≤5 %	≤5 %	≤5 %
Environmental				
Overload Limit (Shock)	±5,000 g pk	±49,050 m/s ² pk	±5,000 g pk	±49,050 m/s ² pk
Temperature Range (Operating)	-65 to +200 °F	-54 to +93 °C	-65 to +200 °F	-54 to +93 °C
Base Strain Sensitivity	0.004 g/με	0.04 (m/s ²)/με	0.003 g/με	0.03 (m/s ²)/με
Electrical				
Excitation Voltage	24 to 30 VDC			
Constant Current Excitation	2 to 20 mA			
Output Impedance	≤100 Ohm			
Output Bias Voltage	8 to 12 VDC			
Electrical Isolation (Case)	>10 ⁸ Ohm			
Physical				
Sensing Element	Ceramic			
Sensing Geometry	Shear			
Housing Material	Titanium			
Sealing	Hermetic			
Weight	0.51 oz	14.5 gm	0.51 oz	14.5 gm
Electrical Connector	1/4-28 4-Pin			
Mounting Screw, 354Axx	6-32			
Mounting Screw, M354Axx	M3 x 0.5			

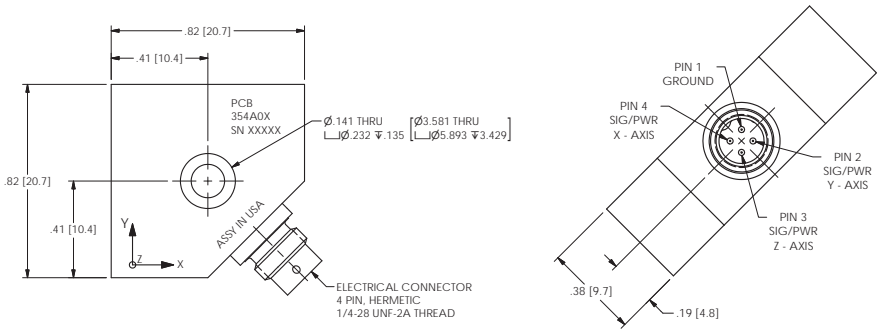
RECOMMENDED CABLES:



Model 010G10



Model 078G10



354A04 and 354A05 are thru-hole mount sensors. They are supplied with a mounting screw, Model 081A105 or M081A103.



3425 Walden Avenue, Depew, NY 14043-2495 USA
 Toll-Free in the USA: 800 828 8840
 Phone: 1 716 684 0001 | Email: info@pcb.com

PCB Piezotronics, Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. With a worldwide customer support team, 24-hour SensorLineSM, and a global distribution network, PCB® is committed to Total Customer Satisfaction. Visit www.pcb.com for more information. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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