PCB PIEZOTRONICS
AN AMPHENOL COMPANY

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

CE

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

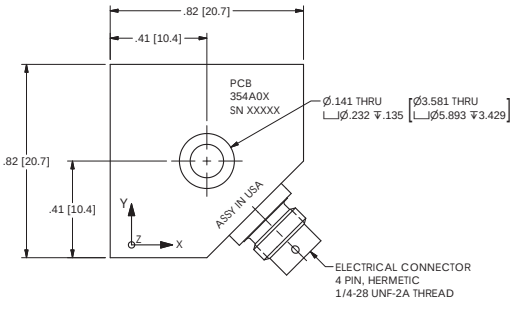
SPECIFICATIONS

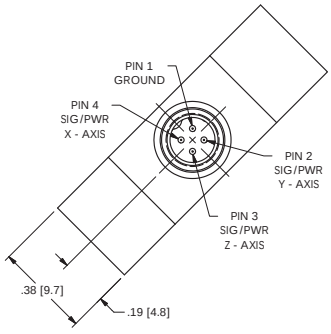
Model	354A04 & M354A04		354A05 & M354A05	
	English:	SI:	English:	SI:
Performance				
Sensitivity (±5 %)	10 mV/g	1.02 mV/(m/s²)	100 mV/g	10.2 mV/(m/s²)
Measurement Range	±500 g pk	±4,905 m/s² pk	±50 g pk	±491 m/s² pk
Frequency Range (±5 %)	0.4 to 5,000 Hz	0.4 to 5,000 Hz	0.4 to 5,000 Hz	0.4 to 5,000 Hz
Resonant Frequency	≥25 kHz	≥25 kHz	≥25 kHz	≥25 kHz
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s² rms	0.0003 g rms	0.003 m/s² 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/s² pk	±5,000 g pk	±49,050 m/s² 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/s²)/με	0.003 g/με	0.03 (m/s²)/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





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