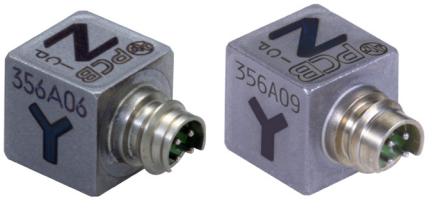
PCB PIEZOTRONICS
AN MTS COMPANY

MODELS **356A06 & 356A09**

MINIATURE TRIAXIAL ICP® ACCELEROMETERS



- Small 0.25 (6.4 mm) adhesive mount cube
- Mini 8-36 4-pin jack offering improved serviceability in the case of cable damage
- High overload limit of 10000 g / 5000 g
- 10 ft (3 m) mating cable assembly with triaxial BNC plug termination included (except /NC model)

TYPICAL APPLICATIONS

Ideal for measuring vibration in:

- Powertrain NVH
- Component/system testing
- Structure response testing where sensors must fit within devices

FOR WHEN MINIMAL MASS LOADING AND SIZE MATTERS

Models 356A06 and 356A09 provide a 5 mV/g and 10 mV/g sensitivity with 1000 g and a 500 g triaxial measurement range (respectively). Both models provide a wide frequency range making them ideal for general vibration testing. They include a lower noise floor and higher shock limit than competitive offerings with a hermetically sealed titanium housing. The mini 8-36 4-pin jack allows for simple cable replacement and sensor mounting, and makes these the smallest ICP® triaxial accelerometers with a connector. With a weight of 1 gm (0.04 oz), these sensors are excellent for vibration testing small electronic devices with minimal mass loading and potential for overload shock.

Both models require an ICP® compatible signal conditioner or data acquisition system with 2 to 20 mA of constant current, available globally.

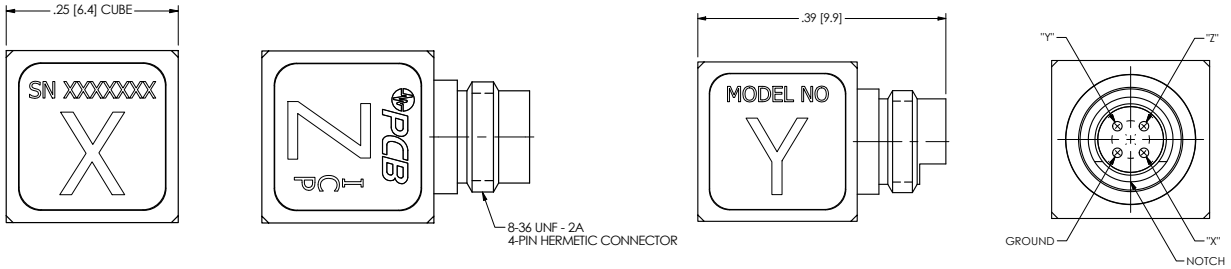
CE

SPECIFICATIONS

Model Number	356A06 & 356A06/NC		356A09 & 356A09/NC	
	English	SI	English	SI
Performance				
Sensitivity (±20%)	5 mV/g	0.51 mV/(m/s²)	10 mV/g	1.02 mV/(m/s²)
Measurement Range	±1000 g pk	±9810 m/s² pk	±500 g pk	±4905 m/s² pk
Frequency Range (±5 %)	2 to 8000 Hz (y or z axis) 2 to 5000 Hz (x axis)			
Frequency Range (+1 dB)(x axis)	≥ 8 kHz			
Resonant Frequency	≥ 50 kHz			
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 m/s² rms		
Non-Linearity	≤ 1 %			
Transverse Sensitivity	≤ 5 %			
Environmental				
Overload Limit (Shock)	±10000 g pk	±98100 m/s² pk	±5000 g pk	±49050 m/s² pk
Temperature Range (Operating)	-65 to +250 °F -54 to +121 °C			
Electrical				
Excitation Voltage	18 to 30 VDC		22 to 30 VDC	
Constant Current Excitation	2 to 20 mA			
Output Impedance	≤ 200 Ohm			
Output Bias Voltage	7 to 12 VDC		9 to 16 VDC	
Discharge Time Constant	0.24 to 1.0 seconds			
Settling Time (within 10% of bias)	< 3 sec			
Spectral Noise (1 Hz)	1200 µg/√Hz 11772 (µm/sec²)√Hz			
Spectral Noise (10 Hz)	300 µg/√Hz 2943 (µm/sec²)/√Hz			
Spectral Noise (100 Hz)	100 µg/√Hz 981 (µm/sec²)/√Hz			
Spectral Noise (1 kHz)	30 µg/√Hz 294 (µm/sec²)/√Hz			
Physical				
Element / Housing Materials	Shear Ceramic / Hermetic Titanium			
Size (Height x Length x Width)	0.25 x 0.25 x 0.25 in 6.35 x 6.35 x 6.35 mm			
Weight (without cable)	0.04 oz 1.0 gm			
Electrical Connector	8-36 4-Pin			
Electrical Connection Position	Side			
Mounting	Adhesive			

Accessories

Model 080A109 Petro Wax
Model 080A90 Quick Bonding Gel
Calibration per ACS-1T, NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency
Model 034K10 4-cond. Shielded cable, 10 ft (3 M), Mini 4-pin plug to (3) BNC plugs **Not included with /NC models**



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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 SensorLine℠, 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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MTS SENSORS

MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), vastly expanded its range of products and solutions after MTS acquired PCB Piezotronics, Inc. in July, 2016. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corp.; IMI Sensors and Larson Davis are divisions of PCB Piezotronics, Inc.; Accumetrics, Inc. and The Modal Shop, Inc. are subsidiaries of PCB Piezotronics, Inc.