



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



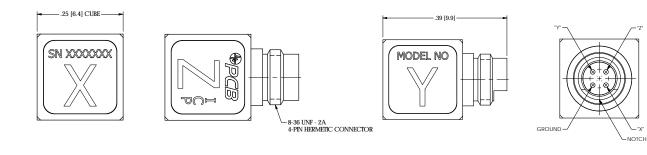
FOR WHEN MINIMAL MASS LOADING AND SIZE MATTERS

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.

Model Number	356A06 & 356A06/NC		356A09 & 356A09/NC	
	English	SI	English	SI
Performance				
Sensitivity (±20%)	5 mV/g	0.51 mV/(m/s ²)	10 mV/g	1.02 mV/(m/s ²)
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/s ² 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 3			30 VDC
Constant Current Excitation	2 to 20 mA			
Output Impedance	≤ 200 0hm			
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 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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