





SERIES 356A4X

MINIATURE TRIAXIAL ICP® ACCELEROMETERS WITH TEDS

- Small size and lightweight
- TEDS IEEE 1451.4 enabled
- Wide frequency bandwidth
- High resonant frequency
- Hermetically sealed titanium housing
- Ground isolated (J) option





Models 356A43,356A44 and 356A45 are miniature and lightweight triaxial ICP® accelerometers that are TEDS IEEE 1451.4 enabled. The accelerometers are hermetically sealed and packaged in a 0.4 inch (10.16 mm) titanium cube that weighs 0.15 ounces (4.2 grams). The TEDS feature self identifies these accelerometers and describes the type, operation, and their attributes making them extremely easy for the operator to track. J version models are ground isolated to reduce electrical noise and ground loops.

TYPICAL APPLICATIONS

- Modal and structural analysis
- NVH studies on automotive parts
- Space restricted installations
- Drop testing and package testing
- Small component qualification testing
- General purpose vibration testing

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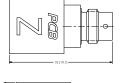
SPECIFICATIONS	356A43 J356A43	356A44 J356A44	356A45 J356A45				
Performance	·						
Sensitivity Tolerance (±10%)	10 mV/g [1.02 mV/(m/s²)]	50 mV/g [5.1 mV/(m/s²)]	100 mV/g [10.2 mV/(m/s²)]				
Measurement Range	± 500 g pk [± 4905 m/s² pk]	± 100 g pk [± 981 m/s² pk]	± 50 g pk [± 490 m/s² pk]				
Frequency Range (±5%)		0.7 – 7,000 Hz					
Frequency Range (±10%)		0.4 – 10,000 Hz					
Resonant Frequency		≥ 30 kHz					
Non-linearity	0.0008 g rms [0.008 m/s ² rms]	0.0006 g rms [0.006 m/s ² rms]	0.0005 g rms [0.005 m/s ² rms]				
Transverse Sensitivity		≤1%					
Transverse Sensitivity		≤ 6 %					
TEDS Compliant (IEEE 1451.4)		Yes					
Environmental							
Overload Limit (Shock)		± 5000 g pk [± 49,050 m/s² pk]					
Temperature Range (Operating)	-65 to +250 °F	-65 to +200 °F	-65 to +185 °F				
	-54 to +121 °C	-54 to +93 °C	-54 to +85 °C				
Electrical							
Excitation Voltage		20-30 VDC					
Constant Current Excitation		2-20 mA					
Electrical Isolation		1 x 10° ohm (J option only)					
Physical							
Housing Material		Titanium					
Sealing		Hermetic					
Weight		0.15 oz [4.2 g]					
Electrical Connector		1/4 – 28 4-pin (side)					
	356A43, 356A44, 35	356A43, 356A44, 356A45 J356A43, J356A44, J356A45					
Size (height x width x length)	0.4 x 0.4 x 0.75 in. (10.2 x 10.	0.4 x 0.4 x 0.75 in. (10.2 x 10.2 x 19.1 mm) 0.47 x 0.43 x 0.78 in. (11.8 x 11.0 x 19.8 mm					

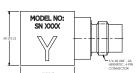
4-CONDUCTOR CABLES:							
Cable Series	010	034	019	036	078		
Cable Style	General Purpose	General Purpose Low Noise	Flexible Lightweight	Flexible	Rugged Flexible		
Jacket Material	FEP	FEP	Silicone	Silicone	Polyurethane		
Cable Jacket Diameter	0.1 in	0.077 in	0.070 in	0.104 in	0.119 in		
	2.54 mm	1.96 mm	1.77 mm	2.64 mm	3.02 mm		
Temperature Range	-130 to +392 °F	-130 to +392 °F	-76 to +500 °F	-76 to +392 °F	-58 to +185 °F		
	-90 to +200 °C	-90 to +200 °C	-60 to +260 °C	-60 to +200 °C	-50 to +85 °C		
Pull Strength	34 lb	19 lb	10 lb	30 lb	25 lb		
10-foot cable assembly model number**	010G10	034G10	019AY010JW	036G10	078G10		

^{**}The model numbers provided are for BNC plug terminated 10-foot cable assemblies compatible with the 356A4X series.

Model 356A4X

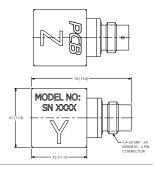






Model J356A4X







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TM-VIB-356A43-44-45-0419

