

Lightweight, Miniature ICP[®] Accelerometer

- Miniature design installs into space-restricted locations
- Lightweight aluminum construction minimizes mass-loading effects
- Ideal for vibration testing of small mechanisms, hard drives, and other computer peripherals
- Coaxial connector accepts removable, replaceable cable
- Electrical ground isolation averts noise pick-up and ground loop problems

**Weighs only
0.2 grams**



CE

2 × Actual Size

Model 352C23
Lightweight, Miniature
ICP Accelerometer

The Model **352C23** lightweight, miniature ICP accelerometer offers exceptional performance in a small size package. The unit is ideally suited for shock and vibration studies on small, lightweight, or delicate components since mass loading effects are minimized. The device satisfies applications such as vibration stress screening of circuit boards, cell phones, and other small electronic appliances; NVH studies on automotive parts and brackets; and modal analysis of small structures and satellite components.

The unit is designed for adhesive mounting and includes a 10 ft. (3 m) replaceable interconnect cable. The low 0.11 in (2.8 mm) height permits installation into space-restricted areas. It operates directly with data acquisition systems and recording equipment that provide ICP sensor excitation.

As with all instrumentation from PCB[®], this sensor is complemented with toll-free applications assistance, 24-hour customer service, and is backed by a **Total Customer Satisfaction** guarantee.

Specifications

Performance	English	SI
Sensitivity (± 15%)	5 mV/g	0.5 mV/m/s ²
Measurement Range	1000 g pk	9810 m/s ² pk
Frequency Range (± 5%)	2 to 10k Hz	2 to 10k Hz
Resonant Frequency	≥ 70 kHz	≥ 70 kHz
Broadband Resolution (1 to 10k Hz)	0.003 g rms	0.03 m/s ² rms
Non-Linearity	± 1%	± 1%
Transverse Sensitivity	≤ 5%	≤ 5%

Environmental		
Overload Limit (any direction)	10,000 g	98,000 m/s ²
Temperature Range	-65 to +250 °F	-54 to +121 °C

Electrical		
Excitation Voltage	18 to 30 VDC	18 to 30 VDC
Excitation Constant Current	2 to 20 mA	2 to 20 mA
Output Impedance	≤ 200 ohm	≤ 200 ohm
Output Bias Voltage	7 to 11 VDC	7 to 11 VDC
Discharge Time Constant	0.1 to 1.0 sec	0.1 to 1.0 sec
Settling Time	< 3 sec	< 3 sec
Electrical Isolation (base)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm

Physical		
Sensing Element	Ceramic	Ceramic
Sensing Geometry	Shear	Shear
Housing Material (anodized)	Aluminum	Aluminum
Sealing	Epoxy	Epoxy
Size (height × length × width) [1]	0.11 × 0.34 × 0.156 in	2.8 × 8.6 × 3.96 mm
Weight	0.007 oz	0.2 gm
Electrical Connector (side)	3-56 coaxial jack	3-56 coaxial jack
Mounting	Adhesive	Adhesive

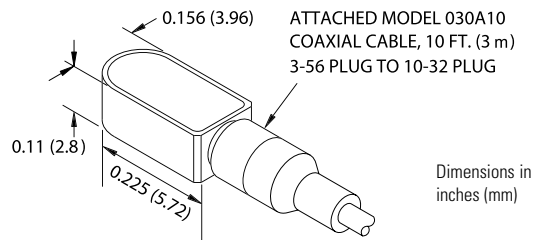
Supplied Accessories	
Model 030A10 Coaxial Cable, 10 ft (3 m) length, 3-56 plug to 10-32 plug	
Model 039A26 Removal Tool	
Model 080A109 Adhesive Petro Wax	
NIST Traceable Calibration Certificate	

Notes:

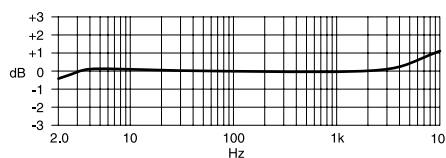
1. Length dimension includes electrical connector



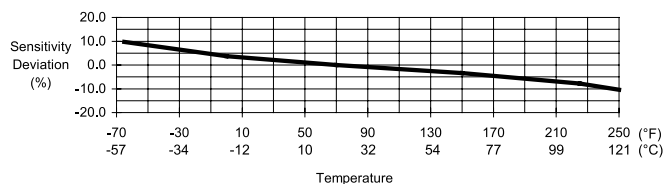
Model 352C23 is supplied with one Model 030A10 coaxial cable, 10 ft (3 m) length, 3-56 coaxial plug to 10-32 coaxial plug (photo depicts short sample cable)



Model 352C23
Miniature ICP Accelerometer



Frequency Response



Sensitivity Deviation vs. Temperature

The Vibration Division of PCB® Piezotronics, Inc. specializes in the development, application, and support of shock and vibration sensors, impact hammers, piezoelectric actuators, and dynamic strain sensors for acceleration measurements and structural testing requirements. This product focus, coupled with the strengths and resources of PCB, permits the Vibration Division to offer timely response to client's needs, exceptional customer service, 24-hour technical assistance, and a **Total Customer Satisfaction** guarantee.



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ISO 9001 CERTIFIED

A2LA ACCREDITED

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