



Models **352A71**, **352A72**, **352A73** & **352A74**

## TEARDROP ICP® ACCELEROMETERS WITH FLEXIBLE, INTEGRAL CABLE

- Very small teardrop-shape
- Flexible integral cable for easy routing in tight spaces
- Hermetically sealed titanium housing
- Three sensitivity options:  
5 mV/g, 10 mV/g, 100 mV/g

### Typical Applications

- Small component vibration testing
- Electronics and circuit board qualification
- Drop testing and package testing
- Short term underwater testing



Products Shown at Actual Size

These miniature teardrop ICP® accelerometers feature three different sensitivity options and a flexible twisted pair integral cable for easy routing. Flexible potting material adds strain relief where the cable exits the sensor. All the accelerometers are hermetically sealed in a titanium package. Model 352A72 includes an electrical low pass filter to suppress high frequency noise and decrease the chance of amplifier saturation.

These accelerometers can be powered by any ICP® signal conditioner or data acquisition system that includes 18 to 30 VDC and 2 to 20 mA of constant current.



## MODELS 352A71, 352A72, 352A73 & 352A74



**Structural Solutions Private Limited**

(An ISO9001: 2008 certified company, Rgn. No. EA: 34-39646)

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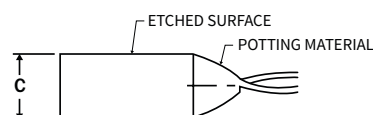
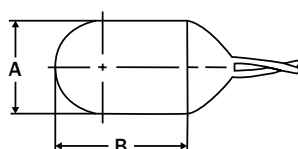
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**NEW!**

SPECIFICATIONS				
Model Number	352A73	352A71	352A72	352A74
<b>Performance</b>				
Sensitivity	5 mV/g	10 mV/g	10 mV/g	100 mV/g
Range	±1,000 g pk	±500 g pk	±500 g pk	±50 g pk
Frequency Range (±5%)	2.0 – 10,000 Hz	0.5 – 10,000 Hz	0.5 – 4,500 Hz	1.0 – 8,000 Hz
Resonant Frequency	≥70 kHz	≥65 kHz	≥65 kHz	≥30 kHz
Electrical Filter (low pass)	No	No	Yes - 15 kHz corner freq.	No
Broadband Resolution (g rms)	0.002	0.003	0.003	0.0002
<b>Environmental</b>				
Overload Limit	±10,000 g pk	±10,000 g pk	±10,000 g pk	±5,000 g pk
Temperature Range (operating)	-65 to +250 °F	-65 to +200 °F	-65 to +200 °F	-65 to +200 °F
	-54 to +121 °C	-54 to +93 °C	-54 to +93 °C	-54 to +93 °C
<b>Electrical</b>				
Excitation Voltage	18-30 VDC	18-30 VDC	18-30 VDC	18-30 VDC
Constant Current Excitation	2-20 mA	2-20 mA	2-20 mA	2-20 mA
<b>Physical</b>				
Housing Material	Titanium	Titanium	Titanium	Titanium
Weight	0.01 oz	0.023 oz	0.023 oz	0.04 oz
	0.3 gm	0.64 gm	0.64 gm	1.22 gm
Dimension A (see Outline Drawing)	0.16 in [4.1 mm]	0.25 in [6.4 mm]	0.25 in [6.4 mm]	0.28 in [7.1 mm]
Dimension B (see Outline Drawing)	0.27 in [6.8 mm]	0.33 in [8.4 mm]	0.33 in [8.4 mm]	0.39 in [9.9 mm]
Dimension C (see Outline Drawing)	0.11 in [2.8 mm]	0.14 in [3.6 mm]	0.14 in [3.6 mm]	0.19 in [4.8 mm]
<b>Accessories - Supplied</b>				
Removal Tool	039A26	039A32	039A32	039A35
Petro Wax	080A109			
<b>Accessories - Optional</b>				
BNC Connector Adapter	070A02			
Quick Bond Gel	080A90			
Extension Cable	002PHxxxAC (10-32 jack to BNC plug terminations)			
Signal Conditioning	482C05 (4 channels, bench top, line powered)			
	482C16 (4 channels, bench top, line powered, front panel keypad/display, gain)			
	483C05 (8 channels, rack mount, line powered)			
	483C50 (8 channels, rack mount, line powered, computer control, gain)			

### Outline Drawing



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**PCB PIEZOTRONICS, INC.** is a designer, manufacturer, and global supplier of accelerometers, microphones, force, torque, load, strain, and pressure sensors, as well as the pioneer of ICP<sup>®</sup> technology. This instrumentation is used for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. Our Platinum Stock Sensors program ensures fast shipment of over 10,000 sensors that are covered by a Lifetime Warranty. With a support team of Customer Service Representatives and Application Engineers, PCB<sup>®</sup> proudly stands behind their products with the services you value most, including 24-hour technical support, a global distribution network, and

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