



M O D E L S 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







Models 352A71 & 352A72

Model 352A73

Model 352A74

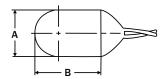
Products Shown at Actual Size

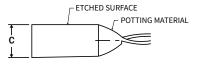
These miniature teardrop ICP® accelerometers feature three different sensitivity options and a flexible twisted pair integral cable for easy routing. Flexible potting material adds strain relief where the cable exits the sensor. All the accelerometers are hermetically sealed in a titanium package. Model 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 $^{\odot}$  signal conditioner or data acquisition system that includes 18 to 30 VDC and 2 to 20 mA of constant current.

SPECIFICATIONS					
Model Number	352A73	352A71	352A72	352A74	
Performance	'				
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	
Environmental	·				
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	
Electrical					
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	
Physical					
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]	
Accessories - Supplied					
Removal Tool	039A26	039A32	039A32	039A35	
Petro Wax	080A109				
Accessories - Optional					
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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