



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

TEARDROP ICP® ACCELEROMETERS WITH FLEXIBLE, INTEGRAL CABLE



Models 352A71 & 352A72

Model 352A73

Model 352A74

Products Shown at Actual Size

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

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.

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

