



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



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® 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

