

A/33-1

Tri-axial charge accelerometer

7pC/g, water cooled, raised base, 3x Top Entry 10-32 Microdot Connectors



KEY FEATURES

- ✓ 0.7Hz to 4kHz frequency range
- ✓ 7pC/g nominal sensitivity
- ✓ Anodized Aluminum body
- ✓ Raised base for customer modification to mount to fit a curved or odd shaped mounting surface
- ✓ 46 grams

WATER COOLING

- ✓ Via 2x Titanium pipes
- ✓ 0.5 litres/min recommended waterflow

INCLUDED WITH DEVICE

- ✓ Silicone tubing
- ✓ General purpose 12V pump

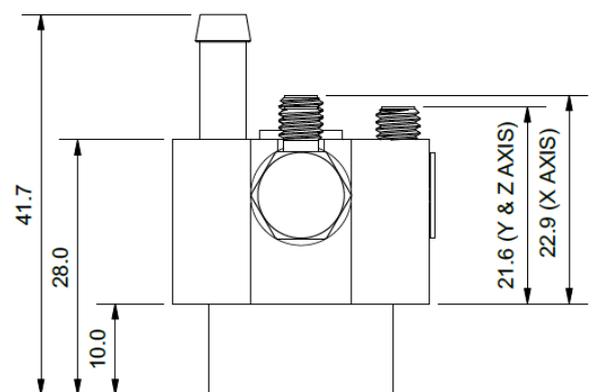
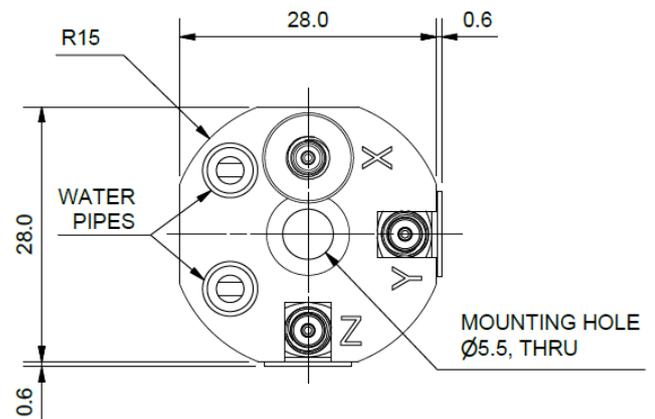
DEVICE / FAMILY OPTIONS

- ✓ A/33 - Flat base for flat surface mounting
- ✓ Extended low & high frequency calibration

TYPICAL CABLE OPTIONS

- ✓ MP2/BC1/T18/30 - Microdot to BNC, low noise co-axial, 3 meters
- ✓ MP2/MP2/T18/30 - Microdot to Microdot, low noise co-axial, 3 meters
- ✓ Other options and lengths available

A/33 ACCELEROMETER DIMENSIONS



All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

Performance

| | |
|---|---------------------|
| Charge Sensitivity | 7pC/g nominal |
| Frequency Response ($\pm 5\%$) | 1Hz - 3kHz |
| Frequency Response ($\pm 10\%$) | 0.7Hz - 4kHz |
| Resonant Frequency | ≥ 15 kHz |
| Pyro-Electric Output | 0.15g/ $^{\circ}$ C |
| Pyro-Electric Corner Frequency | 0.005Hz |
| Cross-Axis Error | $\leq 5\%$ |

Electrical

| | |
|--|-----------------------|
| Capacitance ($\pm 10\%$) | 1300pF |
| Connector | 3x 10-32 UNF Microdot |

Physical

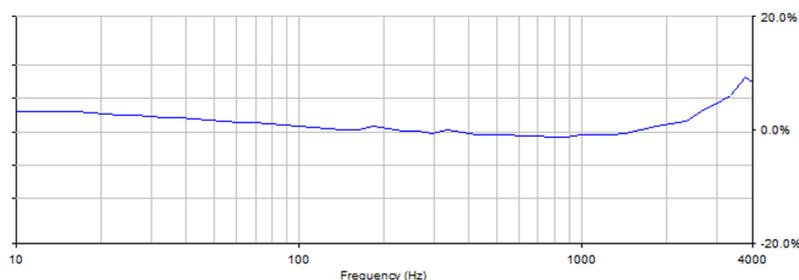
| | |
|------------------------------------|--|
| Case Material | Titanium inserts, anodized aluminum body |
| Mounting | 1x $\varnothing 5.5$ mm through hole |
| Recommended Mounting Torque | N/A |
| Weight | 46.0 grams |
| Size (mm) | 28mm x 28mm x 41.7mm |
| (Inches) | 1.10 x 1.10 x 1.64" |

Environmental

| | |
|---|---|
| Temperature Range ($^{\circ}$C) | -50 $^{\circ}$ C to +220 $^{\circ}$ C (without waterflow); -50 $^{\circ}$ C to +900 $^{\circ}$ C* (with waterflow) |
| ($^{\circ}$F) | -58 $^{\circ}$ F to +428 $^{\circ}$ F (without waterflow); -58 $^{\circ}$ F to +1652 $^{\circ}$ F* (with waterflow) |
| Maximum Shock | 1000g |
| Total Mass Loss (TML) | <0.1% |

* = Surface temperature

TYPICAL FREQUENCY RESPONSE



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SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

ALL DEVICES CALIBRATED IN ACCORDANCE WITH BS ISO 16063-21:2003. ALL DEVICE CALIBRATIONS ARE UKAS TRACEABLE.