



A/36, A/36-1 Triaxial Piezoelectric Accelerometer

5pC/g nom 18gm Max Temp 220°C

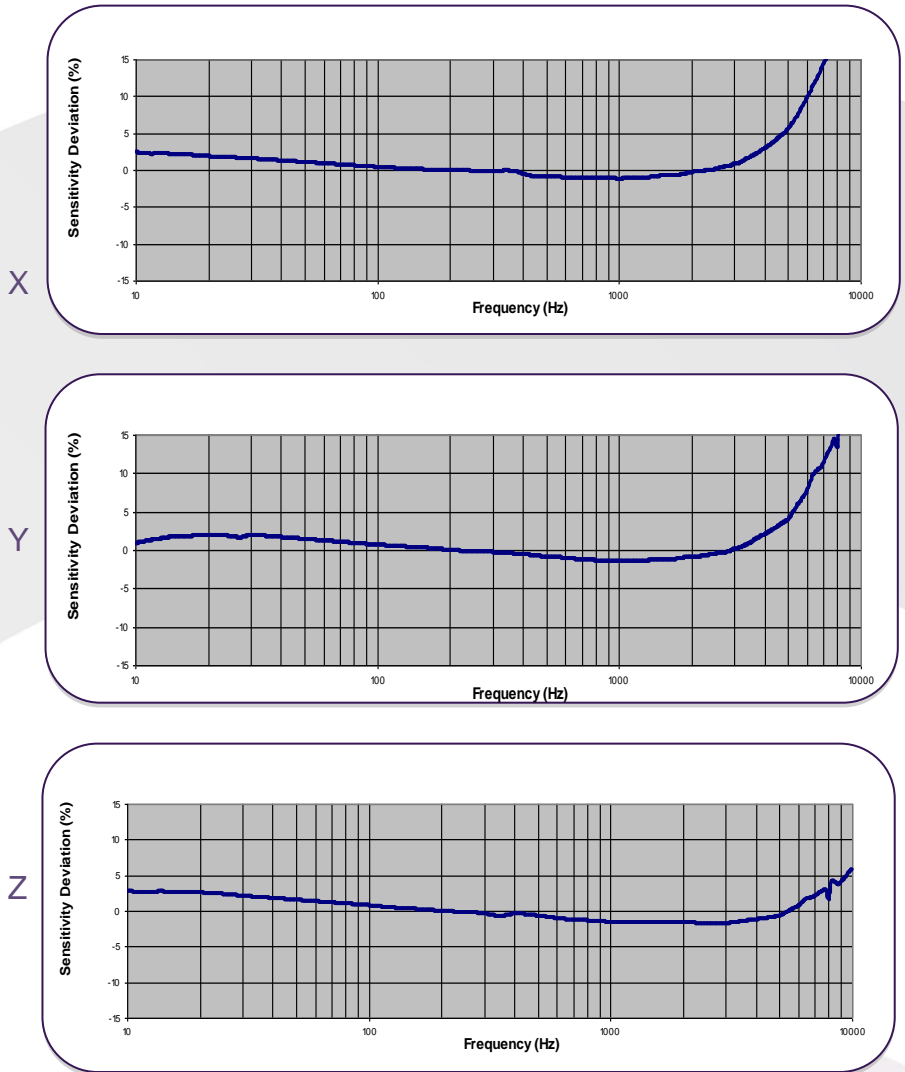
Triaxial vibration transducer comprising of three independent charge output piezo-electric accelerometers mounted orthogonally within a titanium block and welded construction with each axis is calibrated individually. It makes use of the Konic shear sensing elements to ensure a rugged and repeatable triaxial measurement under the most extreme conditions.

All the Microdot connectors are exiting in the same direction. Each insert is electrically insulated, individually from the housing, thus eliminating ground loop interference.

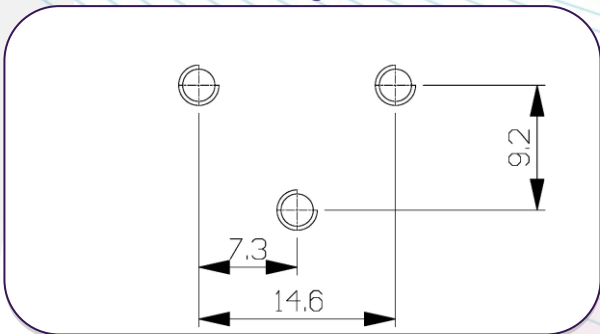
To avoid the effects of triboelectric noise low noise cable must be used terminating to a 10/32 microdot connector.

The A/36 can be clip mounted. The A/36-1 features M3 cut through mounting holes.

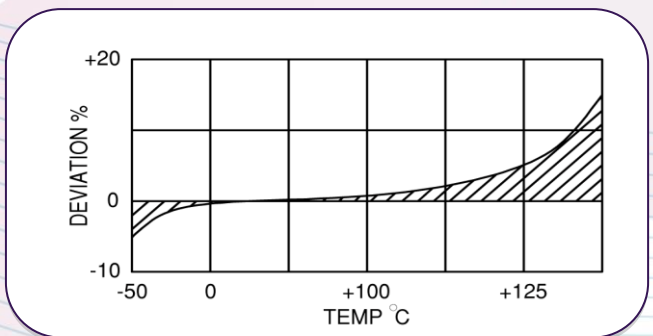
Typical Frequency Response



A/36-1 Cut through holes



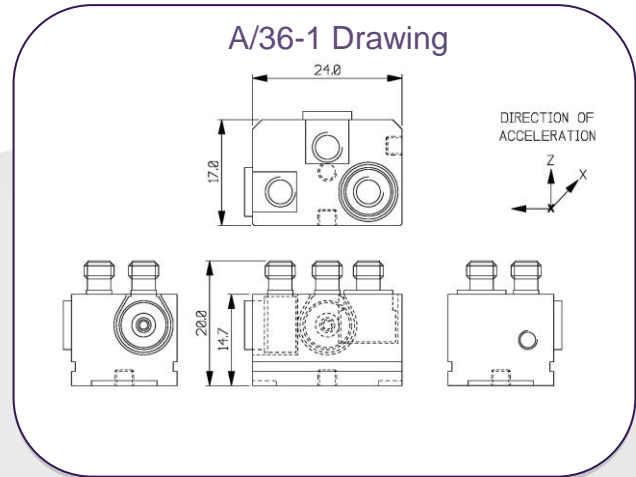
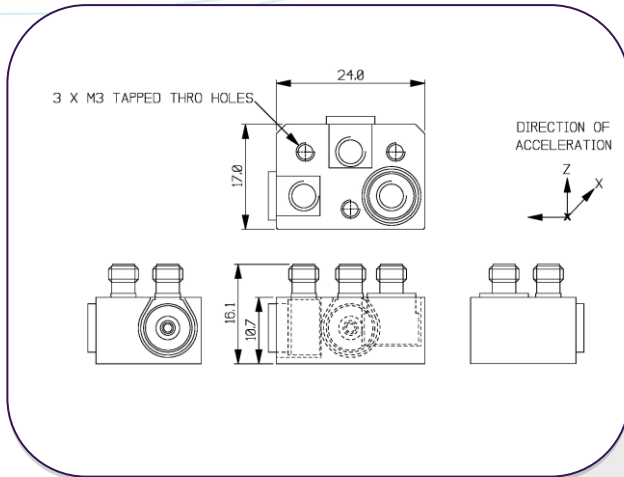
Temperature Response





A/36, A/36-1 Triaxial Piezoelectric Accelerometer

5pC/g nom A/36 Drawing 18gm Max Temp 220°C



| | Metric | Imperial |
|----------------------------------|--|--|
| Charge Sensitivity nom. | 0.51pC/(m/s ²) | 5pC/g |
| Capacitance pF | 750 | 750 |
| Cross Axis Error % max | 5 | 5 |
| Temperature Range | -50/ +220°C | -58/ +428°F DJB Iss.1 |
| Base Strain Sensitivity | <0.01 g/μ strain | <0.01 g/μ strain |
| Max Continuous accn.g sine | 9,807m/s ² | 1000g |
| Max Shock g pK., rise time μ sec | 49,033m/s ² , 30 | 5000g, 30 |
| Case Material | Titanium | Titanium |
| Mounting | Adhesive/ 3x M3 Tapped Holes/Clip | Adhesive/ 3x M3 Tapped Holes/Clip |
| Weight | 18gm | 0.63oz |
| Case Seal | Welded | Welded |
| Connector | 3 x Microdot Connector | 3 x Microdot Connector |
| Resonant Frequency kHz | Z Axis - ≈ 21 X/Y Axis - ≈ 15 | Z Axis - ≈ 21 X/Y Axis - ≈ 15 |
| Frequency Response | X/Y Axis 1Hz – 5kHz ±5% Z Axis 1Hz – 9kHz ±5% | X/Y Axis 1Hz – 5kHz ±5% Z Axis 1Hz – 9kHz ±5% |
| Size | 24 x 17 x 14.7mm A/36 24 x 17 x 10.7mm A/36-1 | 0.94 x 0.67 x 0.58in A/36 0.94 x 0.67 x 0.42in A/36-1 |