

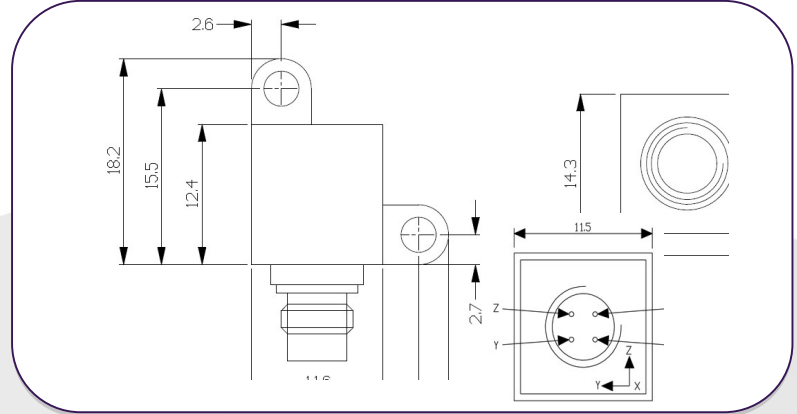


## AT/01/F Miniature Piezoelectric Triaxial Accelerometer

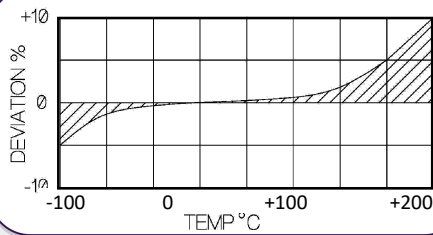
2pC/g nom.      9.9gm      200°C Max Temp.

A lightweight miniature charge output triaxial vibration transducer with a single 4 pin connector, this is a unique design from DJB and comprises three charge output piezo-electric accelerometer elements mounted orthogonally within a titanium block. The use of the Konic Shear® independent sensing elements ensures a rugged and repeatable triaxial measurement under the most extreme conditions.

The AT/01/F uses high temperature piezoceramics as standard to ensure thermal stability. Using the industry standard ¼-28 UNF 4 pin connector for a single cable connection, the AT/01/F must be used with DJB's unique low noise 4 core cable assemblies to reduce triboelectric noise effects. The AT/01/F has a flange for mounting.



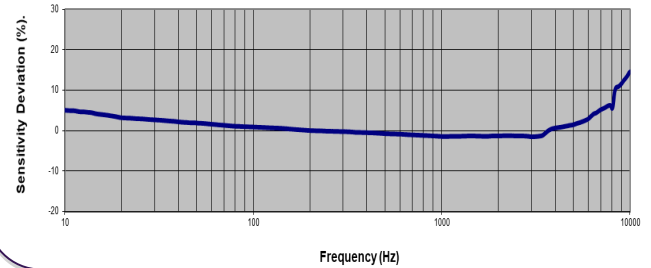
### Temperature Response



### Options

- AT/01 Adhesive mount
- AT/01/F Flanged mount
- AT/01/TB Tapped base

### Typical Frequency Response



|  | Metric                      | Imperial                 |
|--|-----------------------------|--------------------------|
| Charge sensitivity @ 20°C nom.           | 0.20pC/(m/s <sup>2</sup> )  | 2pC/g                    |
| Resonant Frequency                       | ≥58kHz                      |                          |
| Typical Frequency Response               | ±5%<br>±10%                 |                          |
|  | 1Hz – 7kHz<br>0.7Hz – 8kHz  |                          |
| Cross Axis Error                         | ≤5% max                     |                          |
| Temperature Range                        | -50/ +200°C                 | -58/ +392°F              |
| Charge sensitivity deviation (20°C/68°F) | -5% @ -50°C +5% @ +200°C    | -5% @ -58°F +5% @ +392°F |
| Base Strain Sensitivity                  | 0.01g/μ strain              |                          |
| Max Shock g pK, rise time μsec           | 98,100m/s <sup>2</sup> , 30 | 10000g, 30               |
| Case Material                            | Titanium                    |                          |
| Mounting                                 | 2x M3 mounting screws       |                          |
| Weight                                   | 9.9g                        | 0.35oz                   |
| Case Seal                                | Welded                      |                          |
| Size                                     | 11.5 x 11.5 x 11.5mm        | 0.45 x 0.45 x 0.45in     |
| Connector                                | ¼-28UNF 4 pin               |                          |

Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

### DJB Instruments (UK) Ltd

Finchley Avenue,  
Mildenhall, Suffolk IP28 7BG

Tel +44 (0)1638 712 288  
Email sales@djbinstruments.com  
Web www.djbinstruments.com

DJB Iss.4 2020

A UK company with UK-based manufacturing, assembly and calibration in-house.



ISO 9001 – 00025363