

# AT/04/TB

## Tri-axial charge accelerometer

5pC/g, Side Entry 1/4-28 UNF Connector, 10-32 UNF Tapped Base



### KEY FEATURES

- ✓ 0.7Hz to 7kHz frequency range
- ✓ 5pC/g nominal sensitivity
- ✓ Titanium case
- ✓ 10-32 tapped base
- ✓ 16.6 grams

### INCLUDED WITH DEVICE

- ✓ SP/02 Mounting Stud

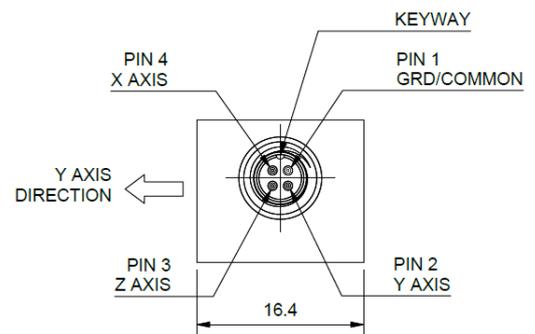
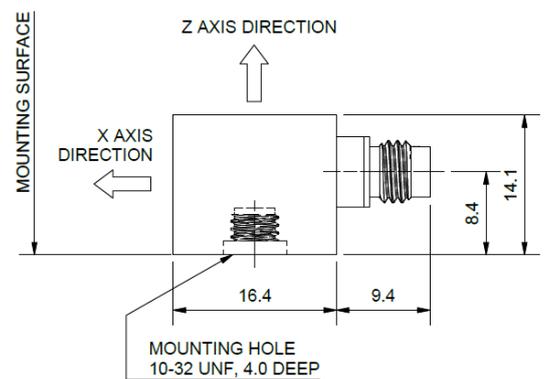
### DEVICE OPTIONS

- ✓ Extended low & high frequency calibration
- ✓ AT/04 ceramic isolated adhesive mount
- ✓ Alternative/additional stud options

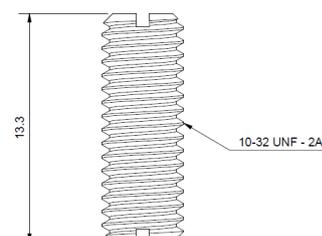
### CABLE OPTIONS

- ✓ 4S-1/ET25-LN/27/4F/3T18/3/BC1 - 4 pin socket, low-noise cable ending in 3x BNC, 3 metres
- ✓ Other options and lengths available

### AT/14/TB ACCELEROMETER DIMENSIONS



### SP/02 MOUNTING STUD DIMENSIONS



All measurements in millimeters (mm)

# TECHNICAL SPECIFICATIONS

## Performance

AT/14

<b>Charge Sensitivity</b>	5pC/g nominal
<b>Frequency Response (<math>\pm 5\%</math>)</b>	1Hz - 6kHz
<b>Frequency Response (<math>\pm 10\%</math>)</b>	0.7Hz - 7kHz
<b>Resonant Frequency</b>	$\geq 20$ kHz (X, Y); 33kHz (Z)
<b>Pyro-Electric Output</b>	0.15g/ $^{\circ}$ C
<b>Pyro-Electric Corner Frequency</b>	0.005Hz
<b>Base Strain Sensitivity</b>	$\leq 0.01$ g/ $\mu\epsilon$
<b>Cross-Axis Error</b>	$\leq 5\%$

## Electrical

<b>Capacitance (<math>\pm 10\%</math>)</b>	675pF
<b>Connector</b>	1/4 UNF, 4 pin

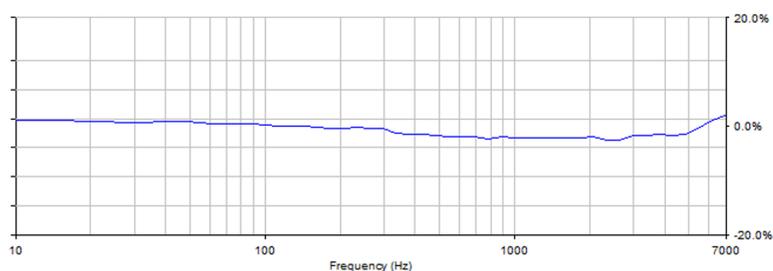
## Physical

<b>Case Material</b>	Titanium
<b>Mounting</b>	Tapped Base, 10-32 UNF
<b>Recommened Mounting Torque</b>	1.2Nm
<b>Weight</b>	16.6 grams
<b>Size (mm)</b>	16.4 x 16.4 x 14.1mm
<b>(Inches)</b>	0.65 x 0.65 x 0.56"

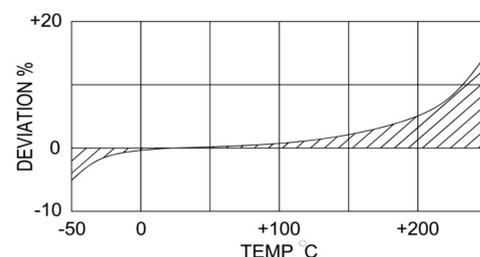
## Environmental

<b>Temperature Range (<math>^{\circ}</math>C)</b>	-55 $^{\circ}$ C to +200 $^{\circ}$ C
<b>(<math>^{\circ}</math>F)</b>	-67 $^{\circ}$ F to +392 $^{\circ}$ F
<b>Maximum Shock</b>	10000g
<b>Total Mass Loss (TML)</b>	<0.1%

TYPICAL FREQUENCY RESPONSE



TYPICAL THERMAL 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.