



# A/23/TB

## Mono-axial charge accelerometer

8pC/g, Side Entry 10-32 Microdot Connector, 5-40 UNF Tapped Base

### KEY FEATURES

- ✓ 0.7Hz to 11kHz frequency range
- ✓ 8pC/g nominal sensitivity
- ✓ Titanium case
- ✓ 3.6 grams

### DEVICE/FAMILY OPTIONS

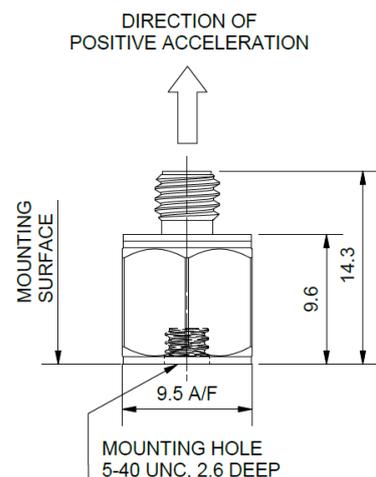
- ✓ Extended low & high frequency calibration
- ✓ Alternative/additional stud options

- A/23/E Side Entry 10-32 Microdot, adhesive mount
- A/23/TE Top Entry 10-32 Microdot, adhesive mount
- A/23/EB Side Entry 10-32 Microdot, 5-40 UNC tapped base
- A/23/TB Top Entry 10-32 Microdot, 5-40 UNC tapped base
- A/23/E-1 Side Entry 10-32 Microdot, ceramic isolated adhesive mount
- A/23/TE-1 Top Entry 10-32 Microdot, ceramic isolated adhesive mount

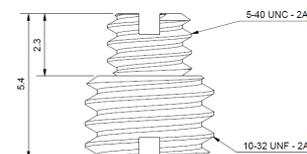
### TYPICAL CABLE OPTIONS

- ✓ 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/23/TB ACCELEROMETER DIMENSIONS



### SM/05 MOUNTING STUD DIMENSIONS



All measurements in millimeters (mm)

# TECHNICAL SPECIFICATIONS

## Performance

A/23/TB

<b>Charge Sensitivity</b>	8pC/g nominal
<b>Frequency Response (<math>\pm 5\%</math>)</b>	1Hz - 10kHz
<b>Frequency Response (<math>\pm 10\%</math>)</b>	0.7Hz - 11kHz
<b>Resonant Frequency</b>	$>50$ kHz
<b>Pyro-Electric Output</b>	0.15g/ $^{\circ}$ C
<b>Pyro-Electric Corner Frequency</b>	0.005Hz
<b>Base Strain Sensitivity</b>	$\leq 0.001$ g/ $\mu\epsilon$
<b>Cross-Axis Error</b>	$\leq 5\%$

## Electrical

<b>Capacitance (<math>\pm 10\%</math>)</b>	1300pF
<b>Connector</b>	Top Entry, 10-32 UNF Microdot

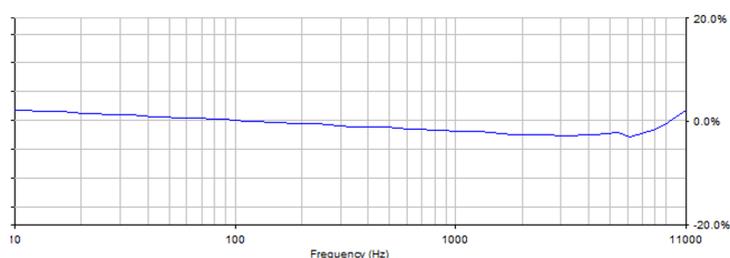
## Physical

<b>Case Material</b>	Titanium
<b>Mounting</b>	2.6mm Tapped Base, 5-40 UNC
<b>Reccomended Mounting Torque</b>	0.8Nm
<b>Weight</b>	3.6 grams
<b>Size (mm)</b>	9.5mm (A/F) x 14.3mm
<b>(Inches)</b>	0.38" (A/F) x 0.56"

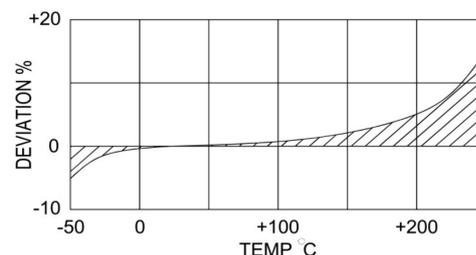
## Environmental

<b>Temperature Range (<math>^{\circ}</math>C)</b>	-55 $^{\circ}$ C to +250 $^{\circ}$ C
<b>(<math>^{\circ}</math>F)</b>	-67 $^{\circ}$ F to +482 $^{\circ}$ 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.