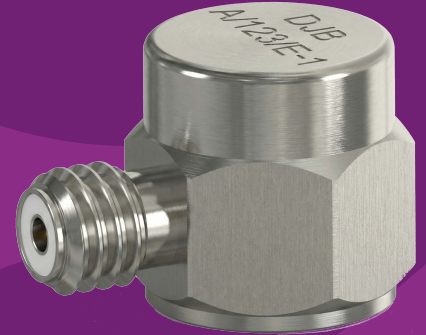


A/123/E-1.XX

Mono-axial IEPE accelerometer

IEPE, Side Entry 10-32 Microdot Connector, Ceramic Isolated Adhesive Mount



KEY FEATURES

- ✓ Titanium case
- ✓ Ceramic isolated base
- ✓ 3.8 grams
- ✓ 5 standard sensitivity options; 1mV/g to 100mV/g

DEVICE / FAMILY OPTIONS

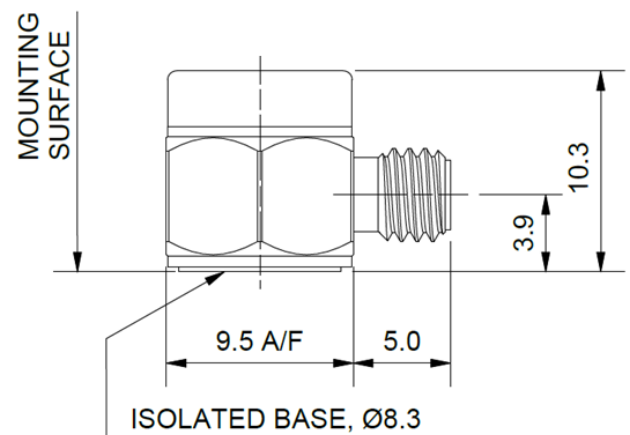
- ✓ A/123/E-1.XXET - Extended temperature variant to 165°C
- ✓ A/123/E-1.XXT - Transducer Electronic Datasheet (TEDS)
- ✓ Extended low & high frequency calibration
- ✓ Custom sensitivities available on request
- ✓ Alternative/additional stud options

- A/123/E Side Entry 10-32 Microdot, adhesive mount
- A/123/TE Top Entry 10-32 Microdot, adhesive mount
- A/123/EB Side Entry 10-32 Microdot, 5-40 UNC tapped base
- A/123/TB Top Entry 10-32 Microdot, 5-40 UNC tapped base
- A/123/E-1 Side Entry 10-32 Microdot, ceramic isolated adhesive mount
- A/123/TE-1 Top Entry 10-32 Microdot, ceramic isolated adhesive mount

TYPICAL CABLE OPTIONS

- ✓ MP2/BC1/S18/30 - Microdot to BNC, FEP jacket, co-axial, 3 meters
- ✓ MP2/MP2/S18/30 - Microdot to Microdot, FEP jacket, co-axial, 3 meters
- ✓ Other options and lengths available

A/123/E-1 ACCELEROMETER DIMENSIONS

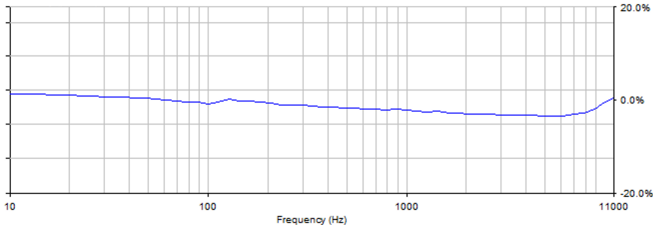


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

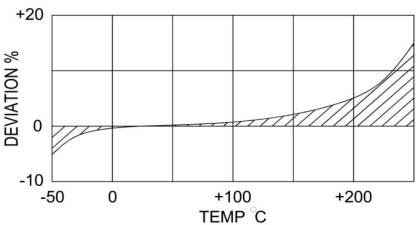
Performance	A/123/E-1.1	A/123/E-1.5	A/123/E-1.10	A/123/E-1.30	A/123/E-1.100
Voltage Sensitivity (±10%)	1mV/g	5mV/g	10mV/g	30mV/g	100mV/g
Measurement Range	±5000g	±1000g	±500g	±160g	±50g
Frequency Response (±5%)	1Hz to 10kHz				
Frequency Response (±10%)	0.7Hz to 11kHz				
Resonant Frequency	≥50kHz				
Cross Axis Error	≤5%				
Maximum Shock Limit	5000g				
Non-linearity (% FS)	≤1%				
Base Strain Sensitivity	≤0.001g/με				
Broadband Resolution	0.0009grms (based on 100mV/g variant)				
Electrical Characteristics					
Supply Voltage	15V to 35V DC				
Supply Current	2mA to 20mA (max 2mA above 125°C)				
Bias Voltage	10V to 14V DC				
Output Impedance	≤100Ω				
Base Isolation Impedance	>100MΩ				
Settling Time Constant	<5 seconds				
Physical					
Case Material	Titanium				
Connector	Side Entry, 10-32 UNF Microdot				
Mounting	Adhesive, ceramic isolated base				
Recommended Mounting Torque	N/A				
Weight	3.8 grams				
Size (mm)	9.5mm (A/F) x 10.3mm				
(Inches)	0.37 " (A/F) x 0.41 "				
Environmental					
Temperature Range (°C)	-50°C to +125°C (Extended temperature option to 165°C)				
(°F)	-58°F to +257°F (Extended Temperature option to 329°F)				
Total Mass Loss (TML)	<0.1%				

TYPICAL FREQUENCY RESPONSE



TYPICAL THERMAL RESPONSE

Response shows performance of piezoelectric sensing element, including beyond the stated operating limits.



TYPICAL SPECTRAL NOISE (100mV/g)

1 Hz - 522 μg/√Hz
10 Hz - 31.2 μg/√Hz
100 Hz - 8.9 μg/√Hz
1 kHz - 5.8 μg/√Hz
10 kHz - 4.2 μg/√Hz

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ISO 9001 – 00025363



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.