



A/120/VTC.XX

Mono-axial IEPE accelerometer

IEPE, Top Entry TNC Connector, Tapped Base

KEY FEATURES

- ✓ Titanium case
- ✓ 27 grams
- ✓ 7 standard sensitivity options; 1mV/g to 1000mV/g

INCLUDED WITH DEVICE

- ✓ A/120/VTC.XX (with XX being required sensitivity)
- ✓ SP/02 Mounting Stud

DEVICE / FAMILY OPTIONS

- ✓ A/120/V.XXET - Extended temperature variant to 165°C
- ✓ A/120/V.XXT - Transducer Electronic Datasheet (TEDS)
- ✓ Extended low & high frequency calibration
- ✓ Custom sensitivities available on request
- ✓ Alternative/additional stud options

A/120/V.XX Side Entry 10-32 Microdot, 10-32 UNF Tapped Base

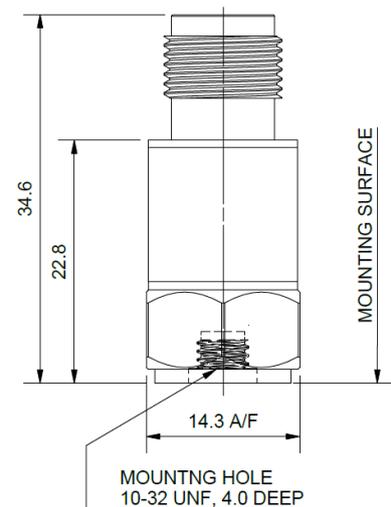
A/120/VT.XX Top Entry 10-32 Microdot, 10-32 UNF Tapped Base

A/120/VTC.XX Top Entry TNC, 10-32 UNF Tapped Base

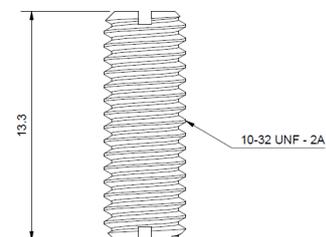
TYPICAL CABLE OPTIONS

- ✓ 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/120/VTC ACCELEROMETER DIMENSIONS



SP/02 MOUNTING STUD DIMENSIONS

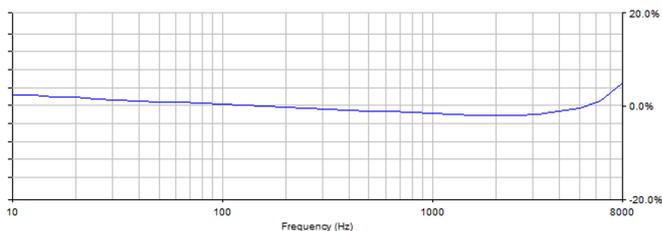


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

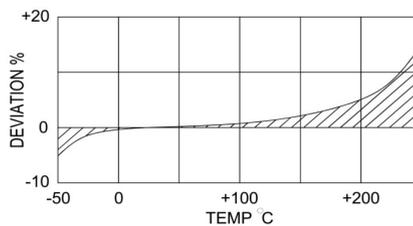
Performance	A/120/VTC.1	A/120/VTC.5	A/120/VTC.10	A/120/VTC.30	A/120/VTC.100	A/120/VTC.500	A/120/VTC.1000
Voltage Sensitivity (±10%)	1mV/g	5mV/g	10mV/g	30mV/g	100mV/g	500mV/g	1000mV/g
Measurement Range	±5000g	±1000g	±500g	±160g	±50g	±10g	±5g
Frequency Response (±5%)	1Hz to 6kHz	1 Hz to 6kHz	1Hz to 6kHz	1Hz to 6kHz	1Hz to 6kHz	1Hz to 6kHz	1Hz to 4kHz
Frequency Response (±10%)	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 5kHz
Resonant Frequency	≥28kHz						
Cross Axis Error	≤5%						
Maximum Shock Limit	5000g						
Non-linearity (% FS)	≤1%						
Base Strain Sensitivity	<0.01g/με						
Broadband Resolution	0.0025 grms (100mV/g)						
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						
Output Impedance	N/A						
Settling Time Constant	<3 seconds						
Physical							
Case Material	Stainless Steel						
Connector	Top Entry, TNC						
Mounting	4mm Tapped Hole, 10-32 UNF						
Recommended Mounting Torque	1.2Nm						
Weight	27 grams						
Size (mm)	14.3mm (A/F) x 34.6mm						
(Inches)	0.56" (A/F) x 1.36"						
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 - 978 μg/√Hz
 10 Hz - 28.7 μg/√Hz
 100 Hz - 8.9 μg/√Hz
 1 kHz - 4.75 μg/√Hz
 10 kHz - 3.99 μg/√Hz

DJB INSTRUMENTS UK LIMITED

e: sales@djbinstruments.com

t: +44 (0) 1638 712288

w: djbinstruments.com



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.