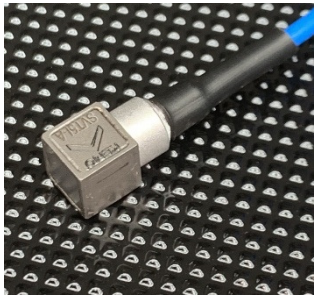
# SVT5I-A

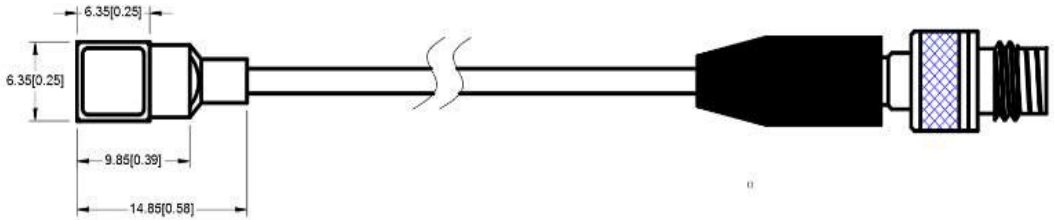
## Ultra Miniature IEPE Triaxial Accelerometer 5mV/g

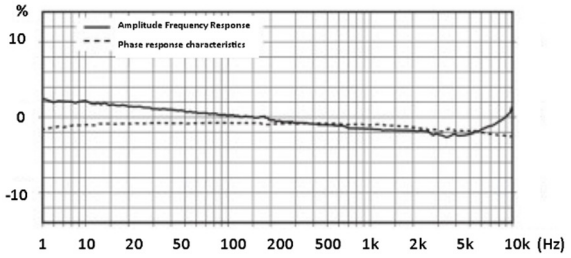
- Ultra Miniature Triaxial IEPE Accelerometer
- Sensitivity – 5mV/g
- Shear design
- Piezoelectric ceramic PZT-5
- Mass - 1grams
- Integral cable with ¼-28UNF connector
- Flat base for adhesive mounting



The SVT5I-A is an ultra miniature IEPE triaxial accelerometer weighing just 1gram and providing almost invisible mass effects on the unit under test.
Just 6.35mm cube and featuring a flexible integral cable for minimal vibration response effects the SVT5I-A is a high performance minature triaxial IEPE accelerometer.

| Specification | Metric | Imperial |
|---|---|---|
| Sensitivity | 0.51mV/(m/s²) | 5mV/g |
| Measurement Range (pk) | ±9800m/s² | ±1000g |
| Frequency Range ±10% | (Y &Z axes) 1 to 10000 Hz<br>X axis 1 to 8000Hz | |
| Resonant Frequency | ≥50 kHz | |
| Non-Linearity | ≤1 % | |
| Transverse Sensitivity | ≤5 % | |
| Electrical Noise Floor | 0.02m/s² rms | 0.002g rms |
| Overload Limit (Shock) | ±49000(m/s²)pk | ±5000gpk |
| Operating Temp. Range | -55 to +125°C | -67 to +257°F |
| Compliance Voltage (Supply) | +18 to +28 VDC | |
| Current range | 2 – 10mA | |
| Output Bias Voltage | 11VDC ± 1.5VDC | |
| Size (excluding connector) | 6.35x6.35x6.35 (mm) | 0.25×0.25×0.25 (in) |
| Weight | 1gm | 0.035oz |
| Sensing Geometry | Shear | |
| Sensing Element Material | PZT-5 | |
| Case Material | Titanium | |
| Connector Position | Side | |
| Case sealing | Hermetic | |
| Electrical Connection Type | ¼-28UNF 4 pin on end of Integral cable | |
| Mounting | Flat base for adhesive mounting | |




Kemo has a range of cable assemblies available for use with the SVT5I-A

**7F82-50 – 5m cable ending in 3 x BNC plugs (X, Y, Z)**
**7F82-30 - 3m cable ending in 3 x BNC plugs (X, Y, Z)**
**7F81-50 - 5m cable ending in 3 x microdot plugs (X, Y, Z)**
**7F81-30 - 3m cable ending in 3 x microdot plugs (X, Y, Z)**

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