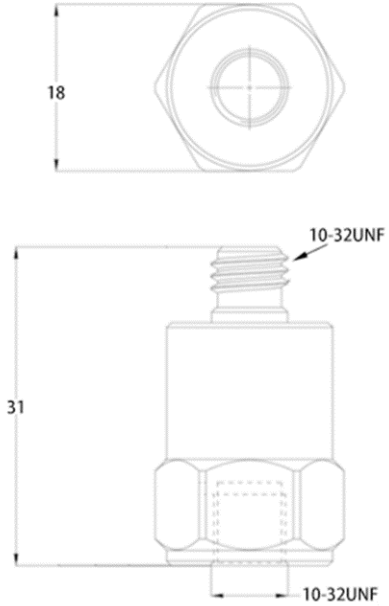
HGC50T-T

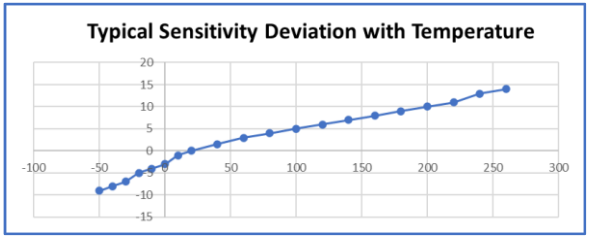
Piezoelectric Charge Output Accelerometer 50pC/g

- General Purpose Piezoelectric Accelerometer
- Shear design
- Piezoelectric ceramic PZT-5
- Sensitivity – 50pC/g
- Mass – 36grams
- 10-32UNF top entry connector
- Use with a Low noise cable

The HGC50T-T is a high temperature general purpose monoaxial piezoelectric accelerometer with a top entry 10/32UNF microdot connector.
The base of the accelerometer has a tapped hole with a 10/32UNF thread for compatibility with many industry applications.
Featuring a shear design PZT-5 sensing element the HGC30T-T provides high accuracy up to 6kHz
Supplied with a standard 10/32UNF mounting stud (other studs are available on request).

Specification	Metric	Imperial
Sensitivity	5.09pC/(m/s²)	50pC/g
Measurement Range (pk)	±9800m/s²	±1000g
Frequency Range ±10%	0.5Hz to 6000 Hz	
Resonant Frequency	≥20 kHz	
Non-Linearity	≤1 %	
Transverse Sensitivity	≤5 %	
Overload Limit (Shock)	±19600(m/s²)pk	±2000gpk
Operating Temp. Range	-55 to +250°C	-67 to +482°F
Polarity ↑	Positive	
Capacitance	850 pF	
Insulation Resistance	>1X10^{11} Ω	
Size (including connector)	18(A/F)x31 mm	0.7”(A/F)x1.22”
Weight	36gm	1.27oz
Sensing Geometry	Shear	
Sensing Element Material	PZT-5	
Case Material	Stainless steel	
Connector Position	Top	
Case sealing	Welded	
Electrical Connection Type	10-32UNF Microdot	
Mounting Thread (tapped base)	10-32UNF	
Mounting Torque	3Nm	26in/lb





It is recommended that the HGC50T-T is used with a low noise cable from Kemo’s range to reduce triboelectric noise.

1A2-30 – 3m(10ft) 10/32UNF microdot to BNC plug
1A2-50 – 5m(15ft) 10/32/UNF microdot to BNC plug
1A1-30 – 3m(10ft) 10/32UNFmdot to 10/32UNFmdot
1A1-50 – 5m(15ft) 10/32UNFmdot to 10/32UNFmdot

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