

## A/107/F/HT-1 Industrial/Aerospace Piezoelectric Accelerometer

80gm 2 pole connector, High Temperature version  
10pC/g nom 400°C max



Industrial/Aerospace grade high temperature vibration transducers, featuring modified mounting arrangement to match industry standards and offer direct replacement for competitor products.

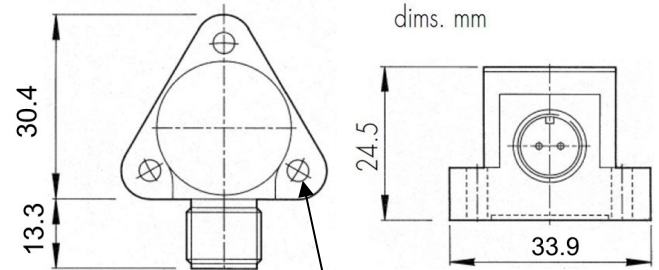
The A/107/FHT-1 features a hermetic 2 pole connector providing a floating signal to minimize common mode interference. With a fully welded assembly the A/107/F/HT-1 offers high temperature range in a lightweight and compact size body.

As with all PE accelerometers the ingress of contaminants into the connector can cause data degradation, in addition a low noise cable should be used to minimize the effects of triboelectric noise, DJB offer a unique 2 core low noise Softline cable for this application.

Transducers and cables can be supplied proof pressure tested to 80bar, individually and as assemblies.

In addition to the above features the A/107's also have fully welded internal electrical connections for a robust sensors with long life capability.

### A/107/F/HT-1



3 mounting holes Ø4.5mm, on a 30.2mm PCD

### Options:

- Temperature calibration to 400°C
- Proof pressure testing to 80bar

	Metric	Imperial
Charge Sensitivity pC/g (nom.)	1.02 pC/(m/s <sup>2</sup> )	10 pC/g
Capacitance	150 / 400pF	
Resonant Frequency	≥18kHz	
Typical Frequency Response ±5% ±10%	1Hz – 3kHz 0.7Hz – 4kHz	
Cross Axis Error	≤ 5%	
Temperature Range	-50/ +400°C	-58/ +752°F
Charge Sensitivity Deviation re 20°C/68°F	-5% @ -50°C +15% @ +400°C	-5% @ -58°F +15% @ +752°F
Pyro-electric Output,	0.2 g/°C	
Pyro-electric corner frequency	0.002Hz	
Base strain sensitivity g/μ strain	≤0.01	
Max Shock	49,033m/s <sup>2</sup>	5000g
Case material	Inconel 600	
Mounting	3 x 4.5mm holes, 30.2mm PCD	3 x 0.18in holes, 1.188inch PCD
Weight	55gm	1.94oz
Case seal	Welded, hermetic	
Size	29.2 x 29.2 x 24.5mm	1.15 x 1.15 x 0.96in
Connector	7/16" UNS 2 pole connector	

**Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes**

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A UK company with UK-based manufacturing, assembly and calibration in-house.



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