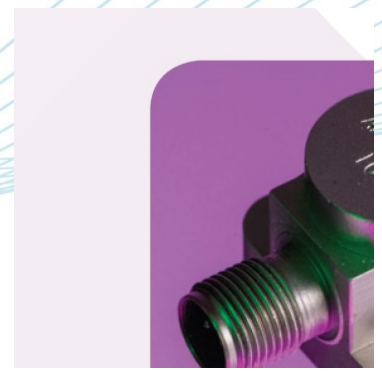


A/107/F

Industrial/Aerospace Piezoelectric Accelerometer

80gm 2 pole connector, lightweight version
100pC/g nom 260°C max



Industrial/Aerospace grade vibration transducers.

The A/107/F features a hermetic 2 pole connector providing a floating signal to minimize common mode interference. With a fully welded assembly the A/107/F offers high temperature and high output (100pC/g) in a lightweight and compact size body.

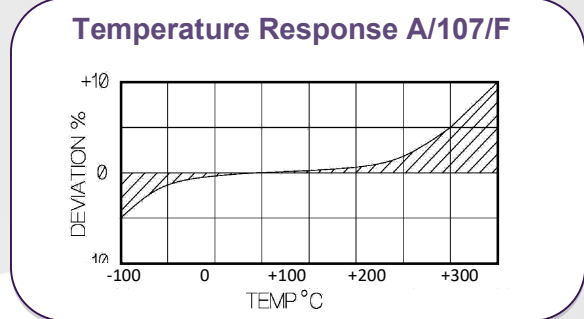
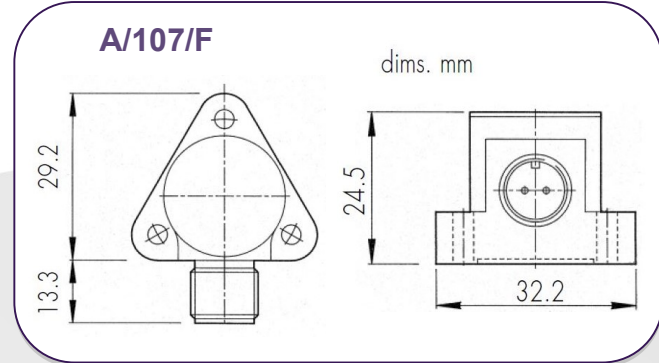
As with all PE accelerometers the ingress of contaminants into the connector can cause data degradation, in addition a low noise cable should be used to minimize the effects of triboelectric noise, DJB offer a unique 2 core low noise Softline cable for this application.

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.

Options:

- Temperature calibration to 260°C
- Proof pressure testing to 80bar



	Metric	Imperial
Charge Sensitivity pC/g (nom.)	10.20 pC/(m/s ²)	100 pC/g
Capacitance	1400 / 2400pF	
Resonant Frequency	≥18kHz	
Typical Frequency Response ±5%	1Hz – 3kHz	
±10%	0.7Hz – 4kHz	
Cross Axis Error	≤ 5%	
Temperature Range	-50/ +260°C	-58/ +500°F
Charge Sensitivity Deviation re 20°C/68°F	-5% @ -50°C +10% @ +260°C	-5% @ -58°F +10% @ +500°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 ²	5000g
Case material	s/steel 303 s31	
Mounting	3 x 3.2mm holes, 25.4mm PCD	3 x 0.13in holes, 1inch PCD
Weight	80gm	2.82oz
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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