

A/27/E Miniature Piezoelectric Accelerometer

2pC/g nom. 1.4gm Std temp 200°C



Sub-miniature teardrop charge output accelerometer. Manufactured in Titanium and features an all welded construction for a robust build. Using the DJB unique Konic shear® sensing element the low mass of the A/27/E renders it transparent in the vast majority of light weight structure vibration measurement applications.

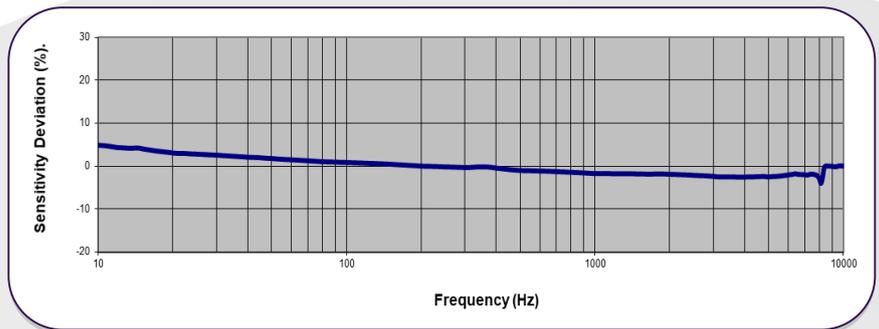
The A/27/E is adhesive mounted. A detachment tool is provided to shear adhesive joints. Shock removal is to be avoided as being deleterious to the integrity of the transducer.

Abrasive cleaning of the attachment face will reduce base thickness over time; sparing use of adhesive will aid longevity and data accuracy.

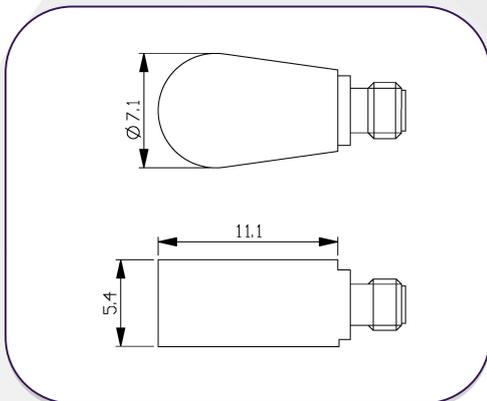
All welded construction.

M3.5 KP miniature microdot connector.

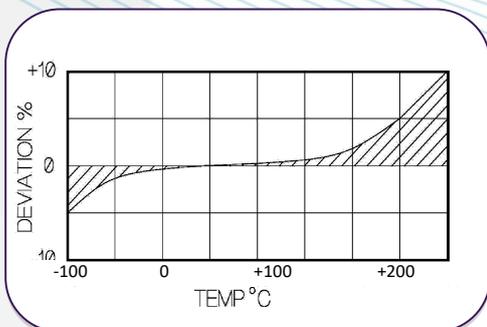
Typical Frequency Response



A/27/E



Temperature Response



	Metric	Imperial
Charge Sensitivity nom.	0.20pC/(m/s ²)	2pC/g
Resonant Frequency	≥50kHz	
Typical Frequency Response	1Hz – 10kHz 0.7Hz – 12kHz	
Cross Axis error	≤5%	
Capacitance nom.	270 pF	
Temperature Range	-50/ +200°C	-58/ +392°F
Charge sensitivity deviation (20°C / 68°F)	-5% @ - 50°C +5% @ + 302°C +10% @ + 200°C	-5% @ - 58°F +5% @ + 576°F +10% @ + 392°F
Base strain	≤0.001g/μ strain	
Max Shock g level, rise time μs	98100m/s ² , 20	10000g, 20
L.F, Corner frequency	0.2 Hz	
Case Material	Titanium	
Mounting	Adhesive	
Weight	1.4gm	0.05oz
Size	11.1 x 7.1 x 5.4mm	0.44 x 0.28 x 0.21in
Connector	M3.5 KP Miniature Microdot	

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

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