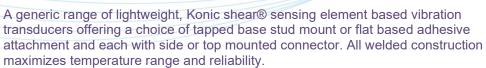


# A/23/E Piezoelectric Accelerometer

8pC/g nom.

3.4gm

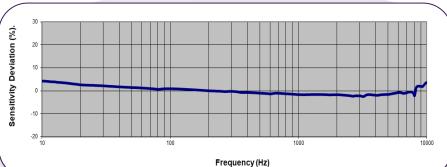
250°C Max. temp



Adhesive mounted versions - Abrasive cleaning of the attachment face will reduce base thickness over time; sparing use of adhesive will aid longevity, whilst also

maximizing data accuracy.

# ongevity, whilst also Typical Frequency Response



## **Applications:**

- · Modal, analysis
- High level vibration to 5000g.
- Shock withstand to 10,000g.
- High level measurements, top entry connector versions, minimising case loading, are preferred.

### **Options:**

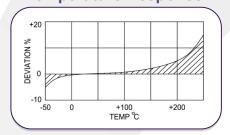
A/23/E - Side entry

A/23/EB - Side entry, tapped base

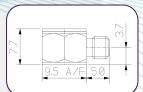
A/23/TE - Top entry

A/23/TB – Top entry, tapped base A/23/E-1 – Side entry, isolated base A/23/TE-1 – Top entry, isolated base

Temperature Response



#### A/23/E



Charge sensitivity nom.         0.81pC/(m/s²)         8pC/g           Resonant Frequency         ≥50 kHz           Typical Frequency         ±5%         1Hz − 10kHz           Response         ±10%         0.7Hz − 11kHz           Cross Axis error         ≤5%           Capacitance nom.         1050 pF           Temperature Range         -55/ +250°C         -67/ +482°F           Charge sensitivity deviation (20°C/68°F)         -5% @ -55°C         -5% @ -67°F           #15% @ +250°C         +15% @ +482°F           Base Strain Sensitivity         98100m/s², 30         10000g, 30           Maximum Shock g level, rise time μs         98100m/s², 30         10000g, 30           Pyro-electric output         0.15g/°C           Pyro-electric corner frequency         Titanium Grade 2           Mounting         Adhesive           Weight         3.4gm         0.12oz           Case seal         Welded           Size         9.5 (A/F) x 7.7mm         0.38 (A/F) x 0.30in           Connector         Side entry 10-32 UNF Microdot		Metric	Imperial
Typical Frequency ±5% Response ±10% 0.7Hz – 10kHz 0.7Hz – 11kHz  Cross Axis error ≤5%  Capacitance nom. 1050 pF  Temperature Range -55/ +250°C -67/ +482°F  Charge sensitivity deviation (20°C/68°F) +15% @ +250°C +15% @ +67°F +15% @ +482°F  Base Strain Sensitivity ≤0.001g/μ strain  Maximum Shock g level, rise time μs 98100m/s², 30 10000g, 30  Pyro-electric output 0.15g/°C  Pyro-electric corner frequency 1.005Hz 1.0005Hz 1.0	Charge sensitivity nom.	0.81pC/(m/s <sup>2</sup> )	8pC/g
Response         ±10%         0.7Hz − 11kHz           Cross Axis error         ≤5%           Capacitance nom.         1050 pF           Temperature Range         -55/ +250°C         -67/ +482°F           Charge sensitivity deviation (20°C/68°F)         -5% @ -55°C +15% @ +67°F +15% @ +482°F           Base Strain Sensitivity         ≤0.001g/μ strain           Maximum Shock g level, rise time μs         98100m/s², 30         10000g, 30           Pyro-electric output         0.15g/°C           Pyro-electric corner frequency         0.005Hz           Case Material         Titanium Grade 2           Mounting         Adhesive           Weight         3.4gm         0.12oz           Case seal         Welded           Size         9.5 (A/F) × 7.7mm         0.38 (A/F) × 0.30in	Resonant Frequency	≥50 kHz	
Capacitance nom.  Temperature Range  -55/+250°C  Charge sensitivity deviation (20°C/68°F)  Base Strain Sensitivity  Maximum Shock g level, rise time μs  Pyro-electric output  Pyro-electric corner frequency  Case Material  Mounting  Case seal  Weight  Titanium Grade 2  Weight  Case seal  Welded  Size  9.5 (A/F) × 7.7mm  1050 pF  -67/+482°F  -5% @ -67°F +15% @ +250°C  -5% @ -67°F +15% @ +482°F  -60.001g/μ strain  10000g, 30  10000g, 30  10000g, 30  -10000g,	'''		
Temperature Range	Cross Axis error	≤5%	
Charge sensitivity deviation (20°C/68°F)	Capacitance nom.	1050 pF	
(20°C/68°F) +15% @ +250°C +15% @ +482°F   Base Strain Sensitivity ≤0.001g/μ strain   Maximum Shock g level, rise time μs 98100m/s², 30 10000g, 30   Pyro-electric output 0.15g/°C   Pyro-electric corner frequency 0.005Hz   Case Material Titanium Grade 2   Mounting Adhesive   Weight 3.4gm 0.12oz   Case seal Welded   Size 9.5 (A/F) x 7.7mm 0.38 (A/F) x 0.30in	Temperature Range	-55/ +250°C	-67/ +482°F
Maximum Shock g level, rise time μs       98100m/s², 30       10000g, 30         Pyro-electric output       0.15g/°C         Pyro-electric corner frequency       0.005Hz         Case Material       Titanium Grade 2         Mounting       Adhesive         Weight       3.4gm       0.12oz         Case seal       Welded         Size       9.5 (A/F) x 7.7mm       0.38 (A/F) x 0.30in			
time µs  Pyro-electric output  O.15g/°C  Pyro-electric corner frequency  Case Material  Mounting  Weight  Titanium Grade 2  Mounting  Adhesive  Case seal  Welded  Size  9.5 (A/F) x 7.7mm  O.38 (A/F) x 0.30in	Base Strain Sensitivity	≤0.001g/µ strain	
Pyro-electric corner frequency  Case Material  Mounting  Weight  Case seal  Size  Pyro-electric corner 0.005Hz  Titanium Grade 2  Adhesive  0.12oz  Welded  0.38 (A/F) x 0.30in		98100m/s², 30	10000g, 30
frequency  Case Material  Mounting  Adhesive  Weight  3.4gm  0.12oz  Case seal  Welded  Size  9.5 (A/F) x 7.7mm  0.38 (A/F) x 0.30in	Pyro-electric output	0.15g/°C	
Mounting         Adhesive           Weight         3.4gm         0.12oz           Case seal         Welded           Size         9.5 (A/F) x 7.7mm         0.38 (A/F) x 0.30in	*	0.005Hz	
Weight       3.4gm       0.12oz         Case seal       Welded         Size       9.5 (A/F) x 7.7mm       0.38 (A/F) x 0.30in	Case Material	Titanium Grade 2	
Case seal Welded  Size 9.5 (A/F) x 7.7mm 0.38 (A/F) x 0.30in	Mounting	Adhesive	
Size 9.5 (A/F) x 7.7mm 0.38 (A/F) x 0.30in	Weight	3.4gm	0.12oz
	Case seal	Welded	
Connector Side entry 10-32 UNF Microdot	Size	9.5 (A/F) x 7.7mm	0.38 (A/F) x 0.30in
	Connector	Side entry 10-32 UNF Microdot	

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

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