

E250–10 Accelerometer

Description

- E250–10 is an extremely small, adhesive mounting piezoelectric accelerometer, its element is piezo-crystal in annular shear mode
- Long stability of sensitivity output
- Equipped with a field-replaceable miniature cable
- Signal ground is isolated from the mounting surface by a ceramic mounting base

Characteristics

- Low impedance output
- Adhesive mounting
- Light weight (0.6 grams)
- Wide bandwidth, high S/N
- Flexible cable

Dynamic Characteristics	
Range	± 500g
Sensitivity(± 5%)	10mV/g
Non-linearity	≤ 1%
Amplitude Response(± 1dB)	2 ~ 15,000Hz
Resonant frequency	80kHz
Transverse Sensitivity	≤ 5%
Electrical Characteristics	
DC output bias voltage	+6.5 ~ 12.5Vdc
Output Resistance	≤ 100Ω
Residual noise (2Hz ~ 25kHz)	0.0015 g rms
Grounding	Signal ground is isolated from ground by a mounting screw
Power Requirement	
Excitation voltage	+18 ~ +24Vdc
Supply current	+2 ~ +20mA
Warm-up time(to within 10% of final bias)	<3Sec
Environmental characteristics	
Working temperature	-55°C ~ +125°C
Vibration limit	1000 g pK
Shock limit	2000 g pK
Humidity	Epoxy sealed
Thermal transient Sensitivity	0.18g pK/°C
Base strain Sensitivity	0.0004g pK/μ Strain
Electromagnetic sensitivity	0.0001g rms/gauss
Physical characteristics	
Weight	0.6grams
Case material	Anodized aluminum alloy case, beryllium copper lid, alumina mounting surface
Mounting	Flat surface provided for adhesive mounting

- Through the assessment of environmental test: Vibration, Shock, Acceleration, Electromagnetic compatibility, Temperature, Altitude, Temperature impact, Mould, Salt mist, Humidity and hot etc.