

E256A-100 Accelerometer

Applications

- E256A-100 is a small piezoelectric accelerometer, its sensitive element is piezo-crystal in annular shear mode
- Signal ground is isolated from the mounting surface of the unit

Characteristics

- Milli-g's resolution
- Low cost, modal testing
- Light weight (5 grams)
- Hermetically sealed
- Vibration test on small structure



Dynamic Characteristics	
Range	± 50g
Sensitivity (± 10%)	100mV/g
Non-linearity	≤ 1%
Amplitude Response(± 10%)	1 ~ 10,000Hz
Resonant frequency	25kHz
Transverse Sensitivity	≤ 5%
Electrical Characteristics	
DC output bias voltage	+12.3 ~ +13.5Vdc
Output Resistance	≤ 200Ω
Output Voltage	± 5V
Resolution	0.0003 g rms
Overload recovery	≤ 45m/sec
Grounding	Signal ground connected to inner case but isolated from outer housing
Power Requirement	
Excitation voltage	+23 ~ +30Vdc
Supply current	+2 ~ +20mA
Environmental characteristics	
Working temperature	-55℃ ~ +125℃
Sinusoidal vibration limit	1000 g pK
Shock limit	2000 g pK
Humidity	Hermetically sealed
Thermal transient Sensitivity	0.9g pk/℃
Base strain Sensitivity	0.0008g pK/μ Strain
Electromagnetic sensitivity	0.0001g rms/gauss
Physical characteristics	
Weight	5grams
Case material	stainless steel
Mounting Torque	1.4Nm

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