



## Tri-axial Capacitance Accelerometer

Model: CA-DR-3050

Manufacturer: Sinocera Piezotronics Inc.

Distributor: LABSEN

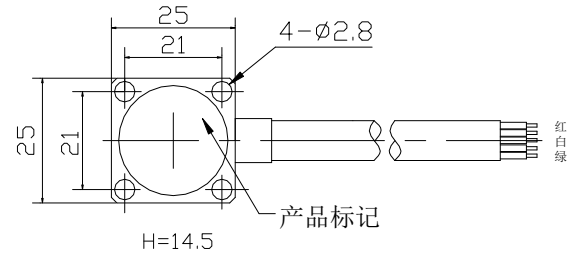
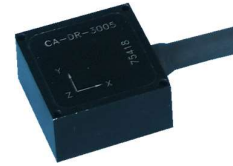


### Features:

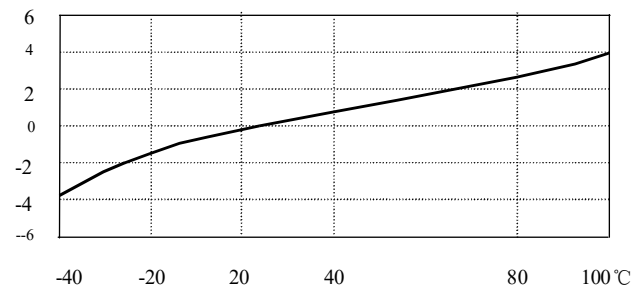
- Differential capacitance working principle
- Wide frequency range from DC to 400Hz
- Tri-axial output (X、Y、Z)

### Specifications

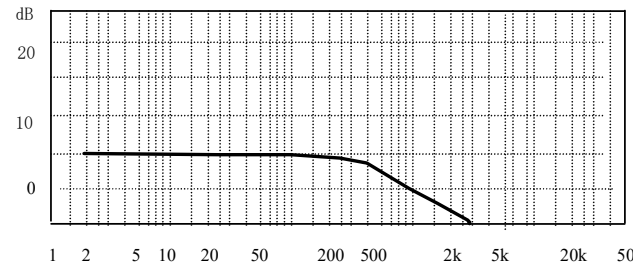
Axial Sensitivity ( $\pm 10\%$ )	$\sim 38\text{mV/g(X、Y、Z)}$
Measurement Range	$\pm 50\text{g}$
Transverse Sensitivity	$\leq 5\%$
Non-linearity	$\leq 0.5\%$
Frequency Response (-3dB)	0~ 400Hz
Mounted Resonance Frequency	5.5000Hz
Temperature Response	Refer to the temp. curve
Operating Temp. Range	$-40 \sim +85^\circ\text{C}$
Temperature Sensitivity	$0.8\% / ^\circ\text{C}$
Shock Limit (No power supply)	500g
Operating Voltage	$+5 \sim +16\text{ V(DC)}$
Operating Current	$\leq 3\text{mA}$
0g offset Voltage	$2.5 \pm 0.1\text{V}$
Noise	$< 0.6\text{mV rms}$
Output impedance	$< 100\ \Omega$
Weight	30 g
Case material	Aluminum- Alloy
Mounting	4- $\phi 2.8$ hole
Output Cable	integral 5 core cable: Red: Power Supply; White: Ground; Yellow: X-axial output; Blue: Y-axial output; Green: Z-axial output
Accessories	
Sensor Certificate	Calibration parameter, frequency response curve



Schematic diagram



Temperature Response Curve



Frequency Response Curve

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