



SINOCERA



Global Sensor Technology

1000pC/ms⁻² High Sensitivity Accelerometer

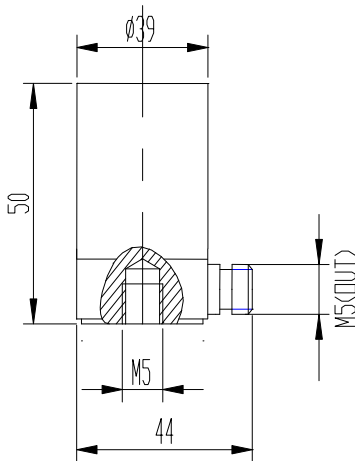
Model CA-YD-109A

FEATURES

- Low frequency and low level vibration measurement
- Very low frequency characteristics

SUPPLIED WITH

- Calibration chart
- M5 to M5stud
- M5-to M8 stud
- Protective cap
- STYV-1 cable, fitted with L5 connectors (2metres)



PERFORMANCE

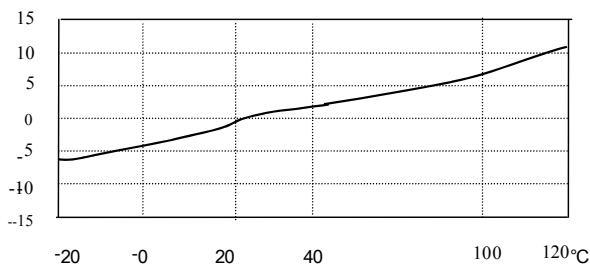
Sensitivity (at 20±5°C)	1000pC/ms ⁻²
Transverse sensitivity	≤5%
Frequency response	see graph below
Frequency range (1dB)	0.2 to 500Hz
Resonant frequency	2500Hz
Temperature response	see graph below
Output phase	in phase with input
Isolation resistance	>10 ⁹ Ω
Capacitance	25000pF

ENVIRONMENTAL CHARACTERISTICS

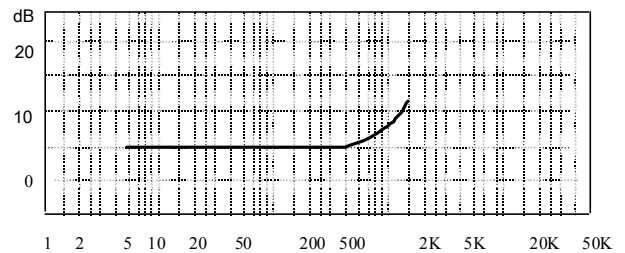
Temperature range	-20°C to 120°C
Shock limit	100ms ⁻²
Thermal transient sensitivity	1×10 ⁻³ ms ⁻² /°C (0.3Hz)
Magnetic sensitivity	6×10 ⁻³ ms ⁻² /T
Base strain sensitivity	6×10 ⁻³ ms ⁻² /με

PHYSICAL CHARACTERISTICS

Weight	400g
Case material	LY12
Mounting	M5 stud
Sensing element	PZT-5
Sensing method	preload compression
Electrical connection	L5 side connector



Typical Temperature Response



Typical Frequency Response (Hz)