



General Purpose (0.2Hz to 3kHz bandwidth) Accelerometer Model CA-YD-117

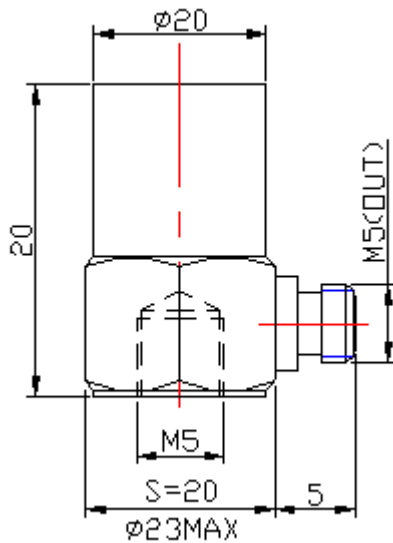
FEATURES

- General purpose vibration and shock measurement
- No supply required
- Charge output
- Low cost



SUPPLIED WITH

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



PERFORMANCE

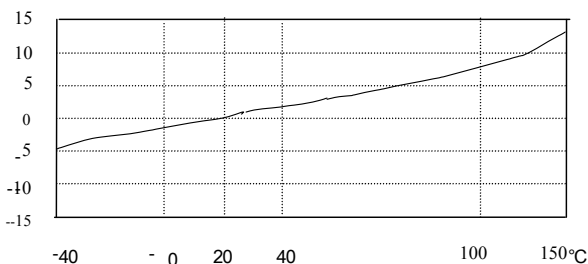
Sensitivity (at $20\pm 5^\circ\text{C}$)	50pC/ms ²
Transverse sensitivity	$\leq 5\%$
Frequency response	see graph below
Frequency range (1dB)	0.2Hz to 3kHz
Mounted resonance	10kHz
Temperature response	see graph below
Output phase	in phase with input
Isolation resistance	$> 10^9 \Omega$
Capacitance	2000pF

ENVIRONMENTAL CHARACTERISTICS

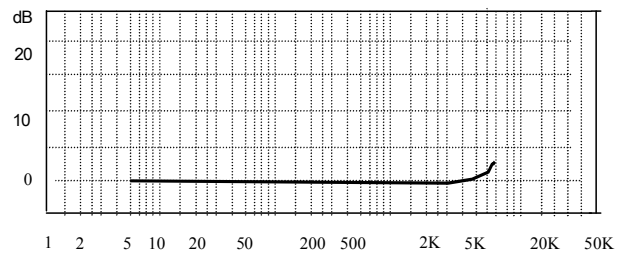
Temperature range	-40 to +150 °C
Shock limit	1,500 ms ⁻²
Thermal transient sensitivity	$3 \times 10^{-2} \text{ms}^{-2}/^\circ\text{C}$ (0.3Hz)
Magnetic sensitivity	10 ms ⁻² /T
Base strain sensitivity	$2 \times 10^{-3} \text{ms}^{-2}/\mu\epsilon$

PHYSICAL CHARACTERISTICS

Weight	50g
Case material	stainless steel
Mounting	M5 stud
Sensing element	PZT-5
Sensor design	plane shear
Electrical connection	side L5 connector



Typical Temperature Response



Typical Frequency Response (Hz)