

Piezoelectric Charge output type (PE) accelerometer

Shock mono-axial accelerometer Model: S117C.2 Version: H1R20Kv221SI

PERFORMANCE

	ENGLISH	SI
sensitivity ($\pm 10\%$)	0.30 pC/g	0.03 pC/(m/s ²)
measuring range	$\pm 20,000$ g pk	$\pm 196,000$ m/s ² pk
frequency response $\pm 5\%$ 【2】	10k Hz	10k Hz
frequency response ($\pm 10\%$) 【2】	12k HZ	12k HZ
resonance frequency 【1】	>30K	>30K
Nonlinear 【3】	$\leq 1\%$	$\leq 1\%$
lateral sensitivity	$\leq 5\%$	$\leq 5\%$

Environmental character

overload limit	$\pm 25,000$ g pk	$\pm 245,000$ m/s ² pk
temperature range	-40~+185° F	-40~+85°C

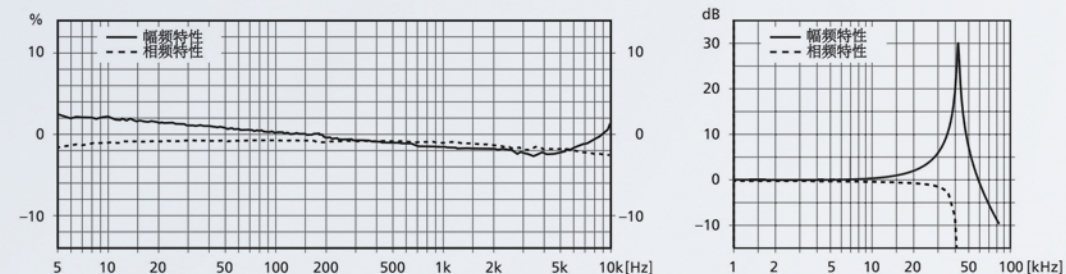
Electrical character

capacitance 【4】	110 pF	110 pF
insulation resistance	$\geq 1 \times 10^{11} \Omega$	$\geq 1 \times 10^{11} \Omega$
output polarity 【1】	isolation	isoaltion
electrical isolation	positive	positive

physical character

sensing element	ceramic	ceramic
stucture mode	shear	shear
shell material	titanium	titanium
sealing mode	laser welding	laser welding
dimensions	$\Phi 0.49$ in \times 0.99 in	$\Phi 12.5$ mm \times 25.5 mm
weight 【1】	0.31 oz	9 g
electrical connector	integral cable	integral cable
electrical connection location	top	top
mounting thread	M6 \times 0.75 bolt	M6 \times 0.75 bolt

TYPICAL FREQUENCY RESPONSE:



NOTE:

- 【1】 Inherent characteristics
- 【2】 The low frequency response is determined by the external signal conditioner
- 【3】 least square method
- 【4】 It depends on the material and quantity of sensing elements

DRAWING:

