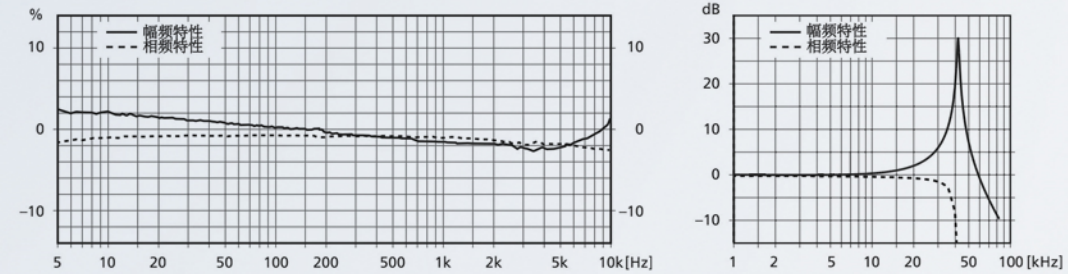


# Piezoelectric Charge output type (PE) accelerometer

Shock mono-axial accelerometer Model: S117C.5 Version: H1R50Kv221SI

PERFORMANCE	ENGLISH	SI
sensitivity (±10%)	0.20 pC/g	0.02 pC/(m/s <sup>2</sup> )
measuring range	±50,000 g pk	±490,000 m/s <sup>2</sup> pk
frequency response ±5% 【2】	10k Hz	10k Hz
frequency response(±10%) 【2】	12k HZ	12k HZ
resonance frequency 【1】	>30K	>30K
Nonlinear 【3】	≤1%	≤1%
lateral sensitivity	≤5%	≤5%
<b>Environmental character</b>		
overload limit	±80,000 g pk	±784,000 m/s <sup>2</sup> pk
temperature range	-40~+185° F	-40~+85°C
<b>Electrical character</b>		
capacitance 【4】	110 pF	110 pF
insulation resistance	≥1x10 <sup>11</sup> Ω	≥1x10 <sup>11</sup> Ω
output polarity 【1】	isolation	isolation
electrical isolation	positive	positive
<b>physical character</b>		
sensing element	ceramic	ceramic
stucture mode	shear	shear
shell material	titanium	titanium
sealing mode	laser welding	laser welding
dimensions	Φ0.49 in × 0.99 in	Φ12.5 mm × 25.5 mm
weight 【1】	0.29 oz	8.3 g
electrical connector	integral cable	integral cable
electrical connection location	top	top
mounting thread	M6×0.75 bolt	M6×0.75 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:

