

# Piezoelectric Charge output type (PE) accelerometer

General tri-axial accelerometer Model: U318C.2 Version: U3S203v221SI

## PERFORMANCE

	ENGLISH	SI
sensitivity ( $\pm 10\%$ )	20 pC/g	2.04pC/(m/s <sup>2</sup> )
measuring range	$\pm 1,000$ g pk	$\pm 9,800$ m/s <sup>2</sup> pk
frequency response( $\pm 5\%$ ) 【2】	5k Hz	5k Hz
frequency response( $\pm 10\%$ ) 【2】	7k Hz	7k Hz
resonance frequency 【1】	>15k	>15k
Nonlinear 【3】	$\leq 1\%$	$\leq 1\%$
tansverse sensitivity	$\leq 5\%$	$\leq 5\%$

## Environmental character

overload limit	$\pm 2,000$ g pk	$\pm 19,600$ m/s <sup>2</sup> pk
temperature range	-65~+302 ° F	-54~+150 ° C

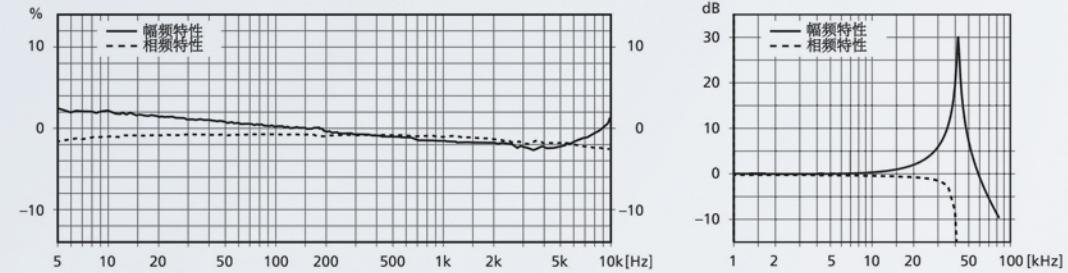
## Electrical character

capacitance 【4】	960pF	960pF
insulation resistance	$\geq 1 \times 10^{11} \Omega$	$\geq 1 \times 10^{11} \Omega$
output polarity 【1】	positive polarity	positive polarity
electrical isolation	no	no

## physical character

sensing element	ceramic	ceramic
stucture mode	shear	shear
shell material	titanium	titanium
sealing mode	laser welding	laser welding
dimensions	1.00 in $\times$ 1.00 in $\times$ 0.55 in	25.4mm $\times$ 25.4mm $\times$ 14mm
weight 【1】	1.06 oz	30 g
electrical connector	3 $\times$ 10-32	3 $\times$ 10-32
electrical connection location	-	-
mounting	$\Phi 5.1$ through hole	$\Phi 5.1$ through hole

## 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:

