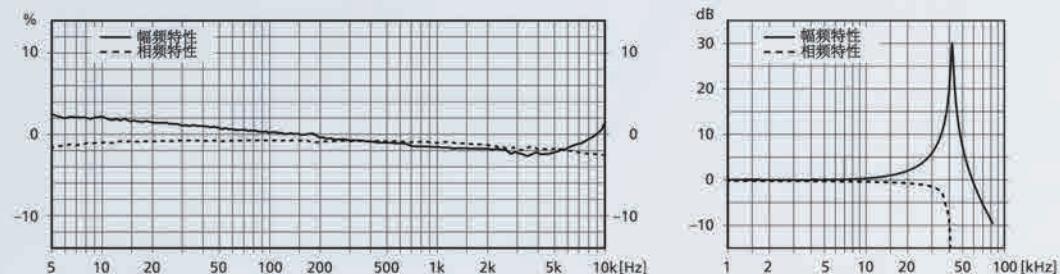


# Piezoelectric Voltage output type (IEPE) accelerometer

General tri-axial accelerometer Model: U328E.2 Version: U328E.2v221EN

PERFORMANCE	ENGLISH	SI
sensitivity ( $\pm 10\%$ )	20mV/g	2.04mV/(m/s <sup>2</sup> )
measuring range	$\pm 250$ g pk	$\pm 2,450$ m/s <sup>2</sup> pk
frequency range( $\pm 5\%$ ) [2]	1~10k Hz	1~10k Hz
frequency range( $\pm 10\%$ ) [2]	0.5~12k HZ	0.5~12k HZ
resonance frequency [1]	>60K	>60K
non-linearity [3]	$\leq 1\%$	$\leq 1\%$
tansverse sensitivity	$\leq 5\%$	$\leq 5\%$
resolution ratio	0.0005g rms	0.005 m/s <sup>2</sup> rms
<b>Environmental character</b>		
overload limit	$\pm 1200$ g pk	$\pm 11,760$ m/s <sup>2</sup> pk
temperature range	-58~+257° F	-50~+120°C
<b>Electrical character</b>		
excitation voltage [4]	+18~+30 VDC	+18~+30 VDC
excitation current [5]	2~20 mA	2~20 mA
bias voltage [1]	8~12V	8~12V
electrical isolation	-	-
output polarity [1]	positive	positive
<b>physical character</b>		
sensing geometry	ceramic	ceramic
stucture mode	shear	shear
housing material	titanium	titanium
sealing mode	laser welding	laser welding
dimension	0.55×0.55×0.33 in	14×14×8.5mm
weight [1]	0.21oz	6g
electrical connector	1/4-28 4 pin	1/4-28 4 pin
electrical connection location	-	-
mounting	Φ3 through hole	M3 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] two-wire constant current incentive source power supply, recommended 24V.
- [5] excitation current recommended 4mA.

## DRAWING:

