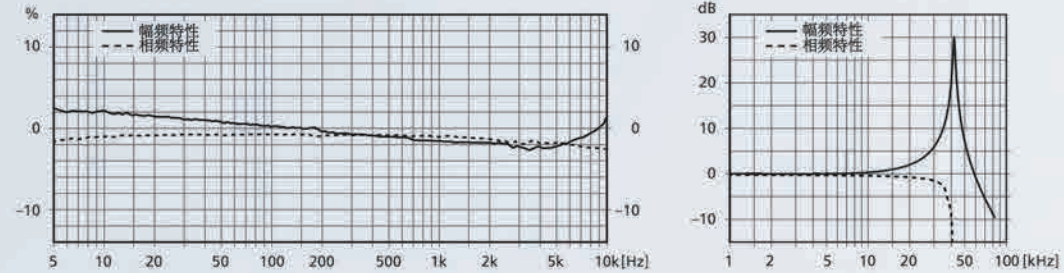


# Piezoelectric Voltage output type (IEPE) accelerometer

High sensitivity mono-axial accelerometer Model: V114E Version: V114Ev221EN

PERFORMANCE	ENGLISH	SI
sensitivity ( $\pm 10\%$ )	1000mV/g	102.04mV/(m/s <sup>2</sup> )
measuring range	$\pm 5$ g pk	$\pm 49$ m/s <sup>2</sup> pk
frequency range( $\pm 5\%$ ) [2]	0.1~2.5kHz	0.1~2.5kHz
frequency range( $\pm 10\%$ ) [2]	0.07~4kHz	0.07~4kHz
resonance frequency [1]	>13K	>13K
non-linearity [3]	$\leq 1\%$	$\leq 1\%$
tansverse sensitivity	$\leq 5\%$	$\leq 5\%$
resolution ratio	0.00001g rms	0.00001 m/s <sup>2</sup> rms
<b>Environmental character</b>		
overload limit	$\pm 100$ g pk	$\pm 980$ m/s <sup>2</sup> pk
temperature range	-40~+248° F	-40~+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	Stainless steel	Stainless steel
sealing mode	laser welding	laser wleding
dimension	0.74×1.37 in	19×35mm
weight [1]	2.39oz	68g
electrical connector	10-32UNF	10-32UNF
electrical connection location	top	top
mounting	10-32 screw hole	10-32 screw 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:

