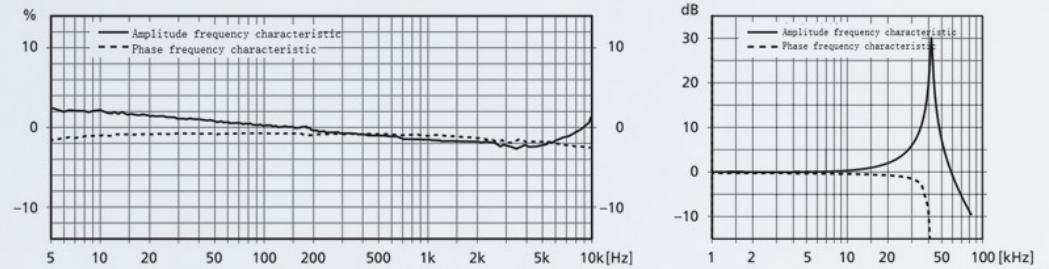


# Piezoelectric Voltage output type (IEPE) accelerometer

Industrial mono-axial accelerometer Model: G115E Version: G115Ev221EN

PERFORMANCE	ENGLISH	SI
sensitivity ( $\pm 10\%$ )	100mV/g	10.2mV/(m/s <sup>2</sup> )
measuring range	$\pm 50$ g pk	$\pm 490$ m/s <sup>2</sup> pk
frequency range( $\pm 5\%$ ) 【2】	1~8kHz	1~8kHz
frequency range( $\pm 10\%$ ) 【2】	0.5~10kHz	0.5~10kHz
resonance frequency 【1】	>25K	>25K
non-linearity 【3】	$\leq 1\%$	$\leq 1\%$
tansverse sensitivity	$\leq 5\%$	$\leq 5\%$
resolution ratio	0.0001g rms	0.001 m/s <sup>2</sup> rms
<b>Environmental character</b>		
overload limit	$\pm 1000$ g pk	$\pm 9,800$ m/s <sup>2</sup> pk
temperature range	-58~+248° 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	Isolation	Isolation
output polarity 【1】	positive	positive
<b>physical character</b>		
sensing element	ceramic	ceramic
Geometry	shear	shear
housing material	Stainless steel	Stainless steel
sealing mode	laser welding	laser wleding
dimension	0.78×1.85 in	20×47mm
weight 【1】	2.18oz	62g
electrical connector	2pin MIL-C5015	2pin MIL-C5015
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:

