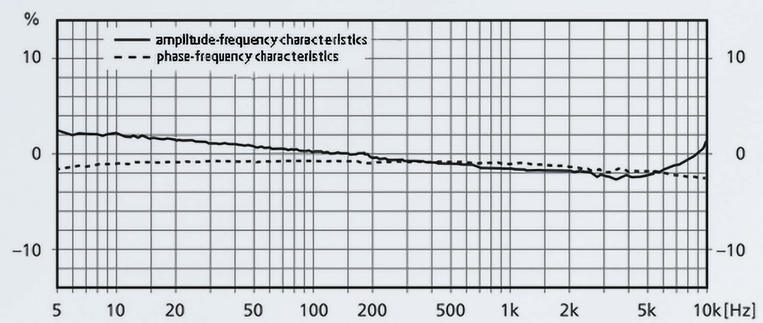
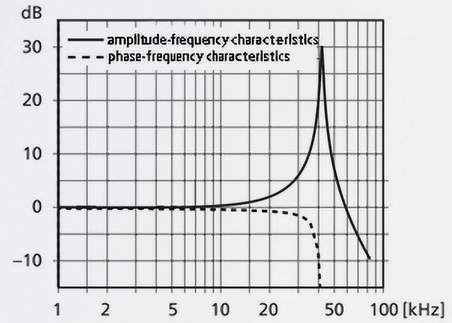
Piezoelectric Voltage output type (IEPE) accelerometer

Miniature Mono-axial accelerometer Model：X111E

PERFORMANCE	ENGLISH	SI
sensitivity（±10%）	10 mV/g	1.02 mV/(m/s²)
measuring range	±500 g pk	±4,900 m/s² pk
frequency range(±5%)【2】	1～12k Hz	1～12k Hz
frequency range(±10%)【2】	0.5~13k Hz	0.5~13k Hz
resonance frequency【1】	>42K	>42K
non-linearity【3】	⩽1%	⩽1%
transverse sensitivity	⩽5%	⩽5%
resolution ratio	0.001 g rms	0.01 m/s² rms
Environmental character		
overload limit	±3000 g pk	±29,400 m/s² pk
temperature range	-67～+248 ℉	-55～+120 ℃
Electrical character		
excitation voltage 【4】	+18~+30 VDC	+18~+30 VDC
excitation current【5】	2~20 mA	2~20 mA
bias voltage【1】	11V±1.5V	11V±1.5V
electrical isolation	-	-
output polarity【1】	positive	positive
physical character		
sensing geometry	ceramic	ceramic
structure mode	shear	shear
housing material	Titanium	Titanium
sealing mode	laser welding	laser welding
dimension	0.40 in	10.2 cube
weight【1】	0.14 oz	4.1g
electrical connector	10-32 UNF	10-32 UNF
electrical connection location	Side	Side
mounting	5-40 screw hole	5-40 screw hole

TYPICAL FREQUENCY RESPONSE：





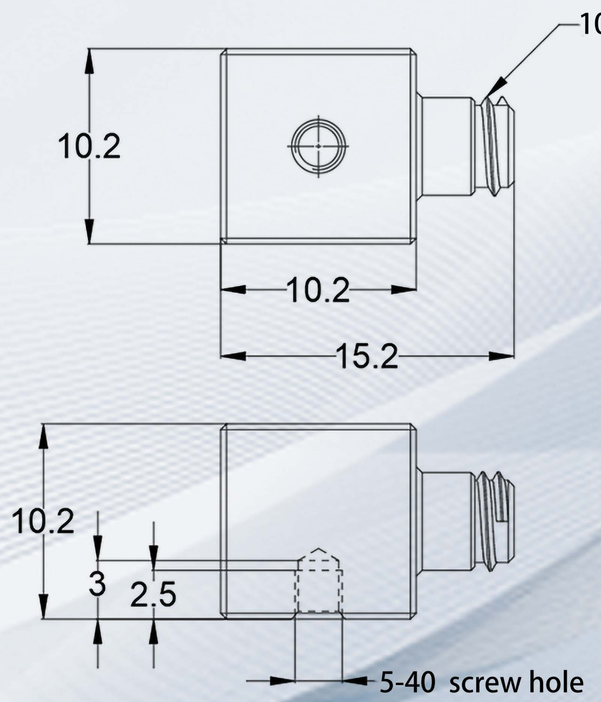
NOTE：

［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,recommened 24V.

［5］ excitation current recommened 4mA.

DRAWING：