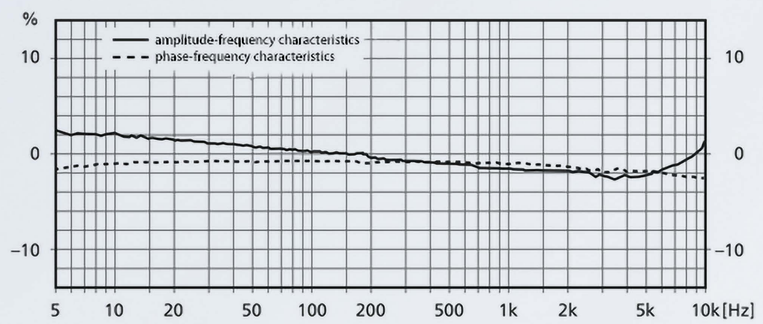
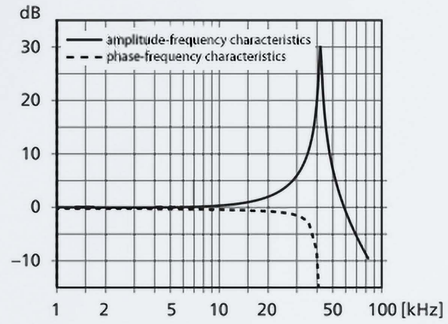
Piezoelectric Voltage output type (IEPE) accelerometer

General-purpose mono-axial accelerometer　　Model：U112E.2

PERFORMANCE	ENGLISH	SI
sensitivity（±10%）	20 mV/g	2.04 mV/(m/s²)
measuring range	±250 g pk	±2,450 m/s² pk
frequency range(±5%)【2】	1～10k Hz	1～10k Hz
frequency range(±10%)【2】	0.5~11k Hz	0.5~11k Hz
resonance frequency【1】	>42K	>42K
non-linearity【3】	⩽1%	⩽1%
transverse sensitivity	⩽5%	⩽5%
resolution ratio	0.0005g rms	0.005 m/s² rms
Environmental character		
overload limit	±5,000 g pk	±49,000 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	0.43×0.87 in	11×22 mm
weight【1】	0.18 oz	5. 2 g
electrical connector	10-32 UNF	10-32 UNF
electrical connection location	Top	Top
mounting	10-32 screw hole	10-32 screw hole

TYPICAL FREQUENCY RESPONSE：





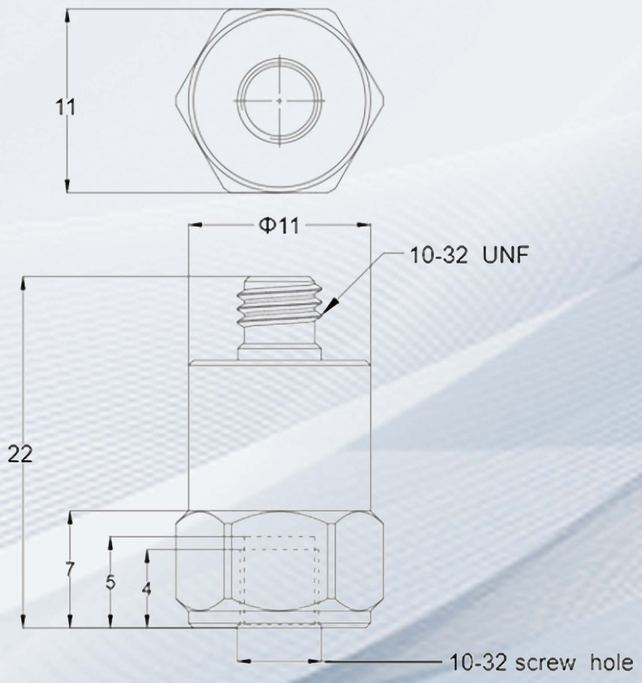
NOTE：

［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,recommened 24V.

［5］ excitation current recommened 4mA.

DRAWING：