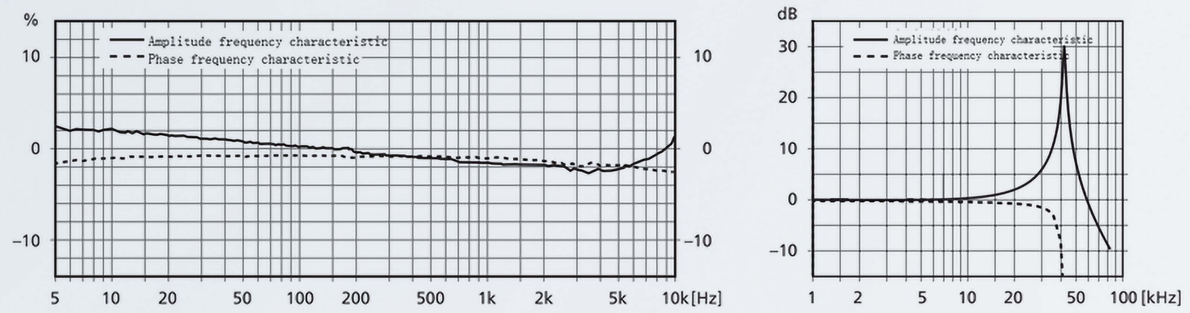
Piezoelectric Voltage output type (IEPE) accelerometer

Miniature tri-axial accelerometer　Model：X331E.2

PERFORMANCE	ENGLISH	SI
sensitivity（±10%）	20 mV/g	2.04 mV/(m/s²)
measuring range	±250 g pk	±980 m/s² pk
frequency range(±5%)【2】	2~8k Hz	2~8k Hz
frequency range(±10%)【2】	1~9k Hz	1~9k Hz
resonance frequency【1】	>45K	>45K
non-linearity【3】	⩽1%	⩽1%
tansverse sensitivity	⩽5%	⩽5%
resolution ratio	0.0005 grms	0.005m/s² rms
Environmental character		
overload limit	±3,000 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】	Z Y positive X negative	Z Y positive X negative
physical character		
sensing element	ceramic	ceramic
Geometry	shear	shear
housing material	Titanium	Titanium
sealing mode	laser welding	laser welding
dimension	0.45 Cube (in)	11.5 Cube (mm)
weight【1】	0.23 oz	6.5 g
electrical connector	1/4-28 4-pin	1/4-28 4-pin
electrical connection location	Side	Side
mounting	5-40 Screw hole	5-40 Screw hole

TYPICAL FREQUENCY RESPONSE：



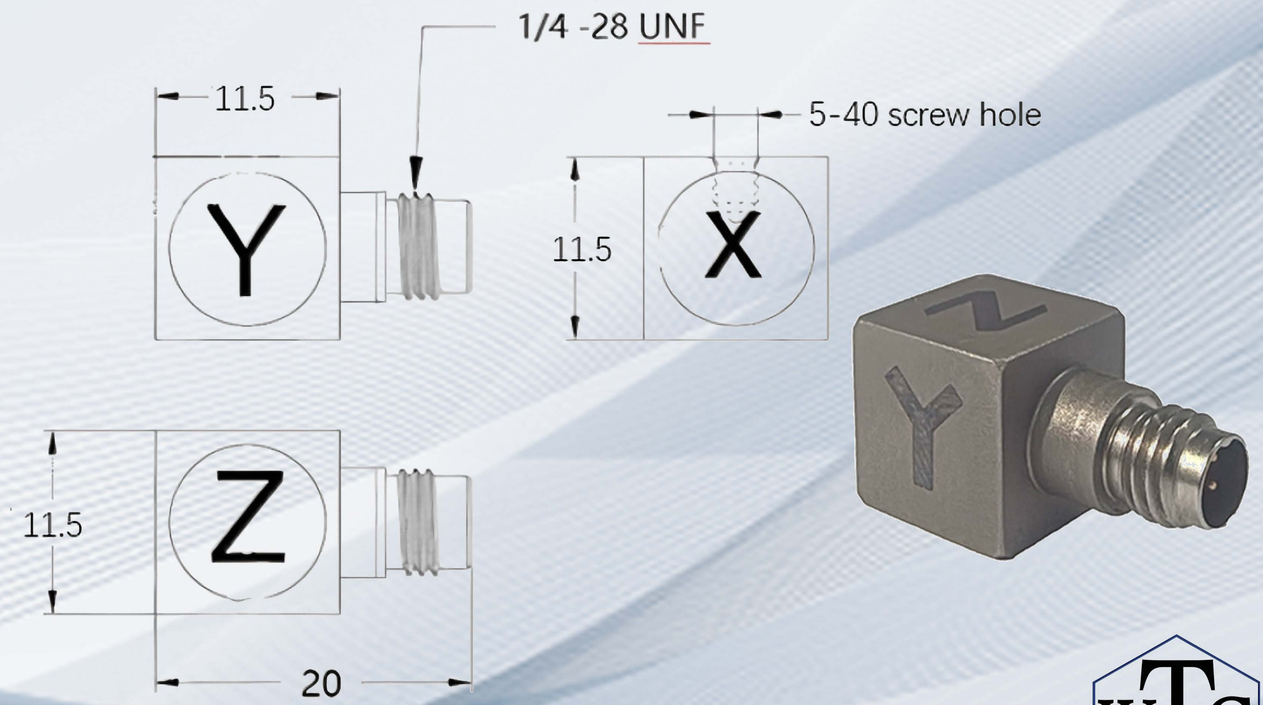
NOTE：

［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：