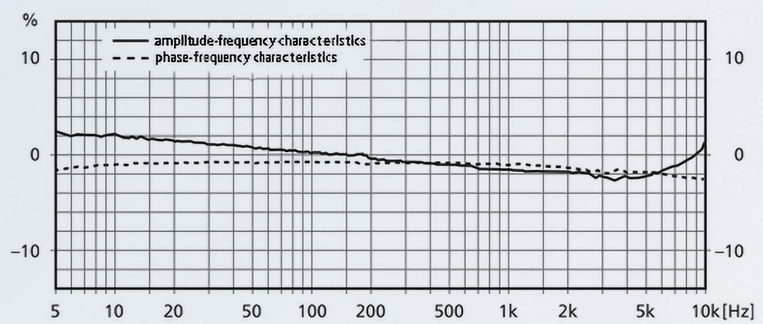
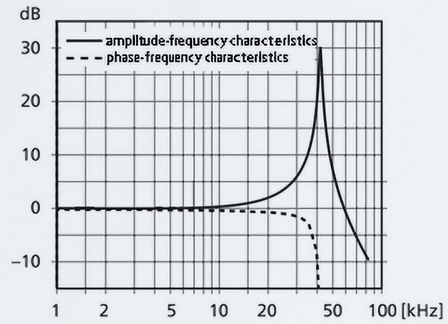
Piezoelectric Charge output type (PE) accelerometer

General-purpose mono-axial accelerometer　Model: U122C.3

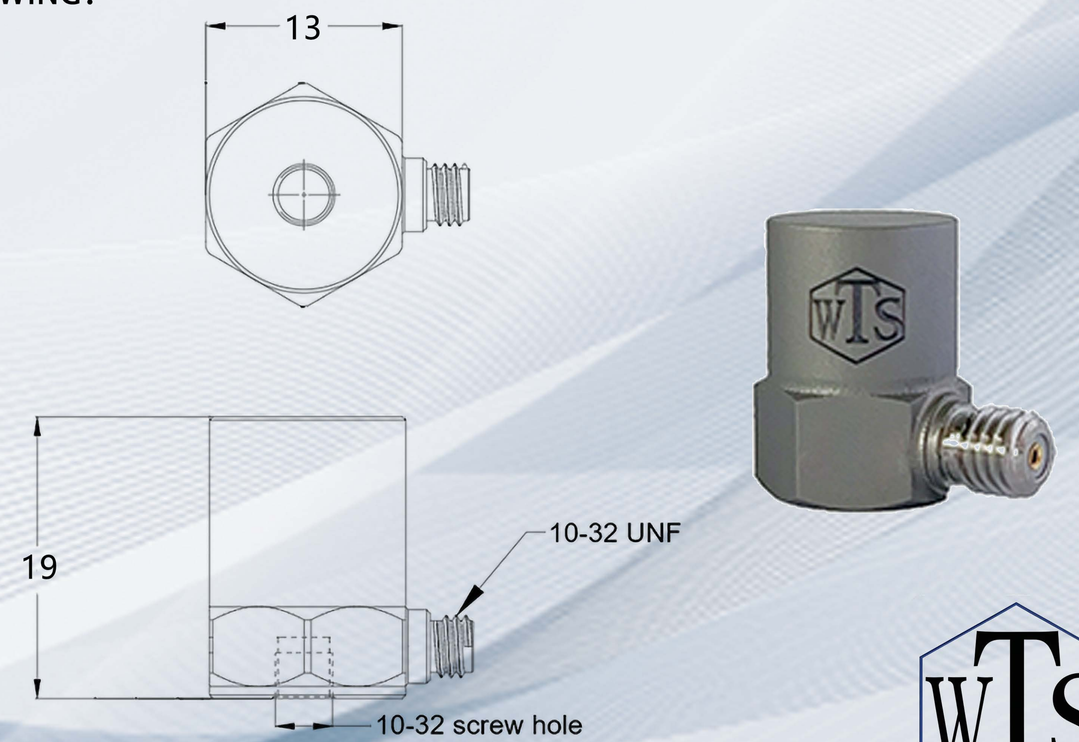
PERFORMANCE	ENGLISH	SI
sensitivity（±10%）	30 pC/g	3.06 pC/(m/s²)
measuring range	±2,000 g pk	±19,600 m/s² pk
frequency range(±5%)【2】	8k Hz	8k Hz
frequency range(±10%)【2】	10k Hz	10k Hz
resonance frequency【1】	>38K	>38K
non-linearity【3】	⩽1%	⩽1%
transverse sensitivity	⩽5%	⩽5%
Environmental character		
overload limit	±3,000 g pk	±29,400 m/s² pk
temperature range	-67～+320°F	-55～+160℃
Electrical character		
capacitance 【4】	850 pF	850 pF
insulation resistance	⩾1x10¹¹Ω	⩾1x10¹¹Ω
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	0.51×0.75 in	13×19 mm
weight【1】	0.46 oz	13 g
electrical connector	10-32 UNF	10-32 UNF
electrical connection location	Side	Side
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] It depends on the material and quantity of sensing elements

DRAWING: