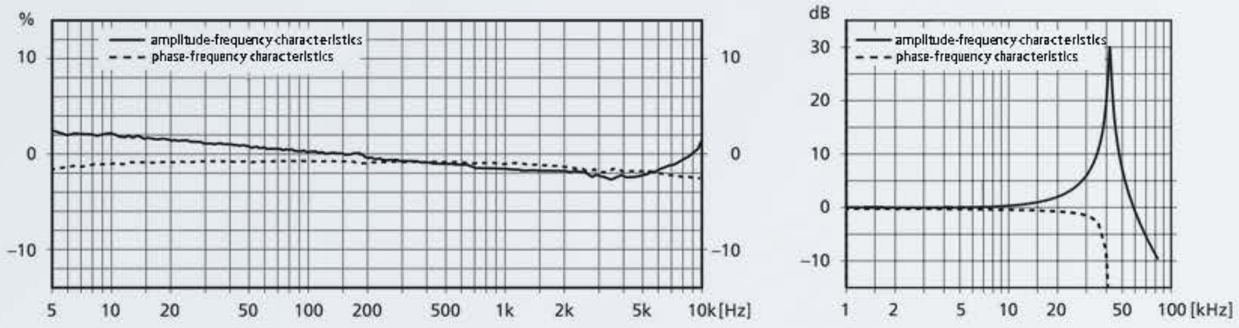
Piezoelectric Charge output type (PE) accelerometer

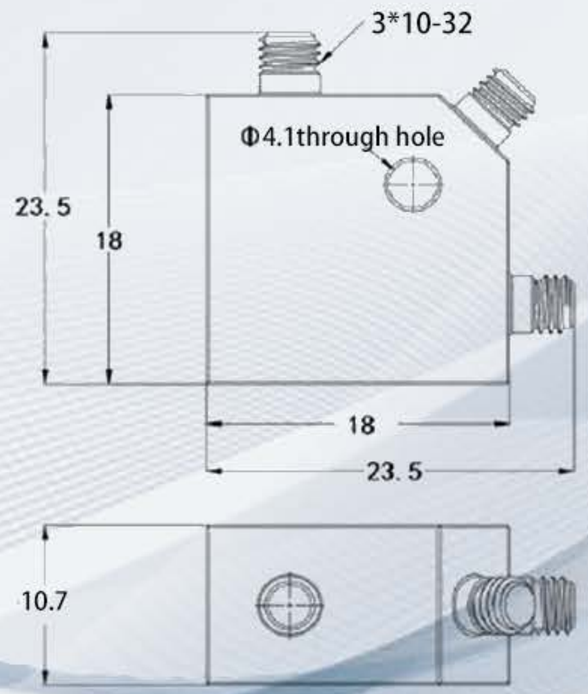
High-temperature tri-axial accelerometer　Model：H318C

PERFORMANCE	ENGLISH	SI
sensitivity（±10%）	10 pC/g	1.02pC/(m/s²)
measuring range	±2,000 g pk	±19,600 m/s² pk
frequency response(±5%)【2】	8k Hz	8k Hz
frequency response(±10%)【2】	10k Hz	10k Hz
resonance frequency【1】	>29k	>29k
Nonlinear【3】	≤1%	≤1%
lateral sensitivity	≤5%	≤5%
Environmental character		
overload limit	±3,000 g pk	±29,400 m/s² pk
temperature range	-67～+482 ° F	-55～+250 ℃
Electrical character		
capacitance 【4】	730pF	730pF
insulation resistance	⩾1×10¹¹ Ω	⩾1×10¹¹ Ω
output polarity【1】	positive	positive
electrical isolation	-	-
physical character		
sensing element	ceramics	ceramics
Geometry	shear	shear
housing material	Titanium	Titanium
sealing mode	laser welding	laser welding
dimensions	0.71× 0.71× 0.42 in	18×18×10.7 mm
weight【1】	0.49-oz	14 g
electrical connector	3*10-32	3*10-32
electrical connection location	-	-
mounting	Φ4.1 Through hole	Φ4.1 Through 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: