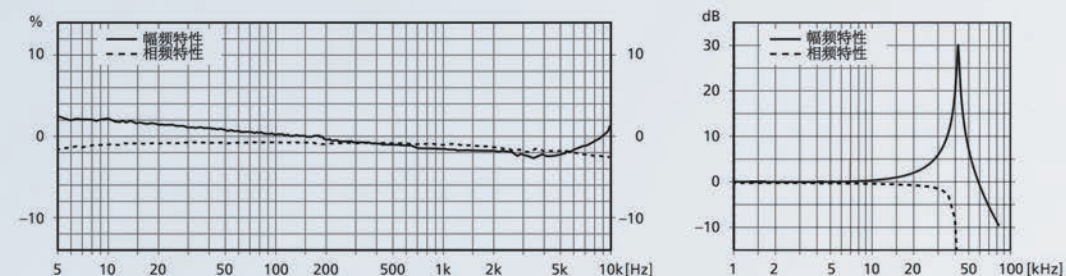


Piezoelectric Voltage output type (IEPE) accelerometer

Universal waterproof mono-axial accelerometer Model: US12EM Version: US12EMv221EN

PERFORMANCE	ENGLISH	SI
sensitivity ($\pm 10\%$)	10mV/g	1.02mV/(m/s ²)
measuring range	± 500 g pk	$\pm 4,900$ m/s ² pk
frequency range($\pm 5\%$) [2]	1~12kHz	1~12kHz
frequency range($\pm 10\%$) [2]	0.5~13kHz	0.5~13kHz
resonance frequency [1]	>56K	>56K
non-linearity [3]	$\leq 1\%$	$\leq 1\%$
tansverse sensitivity	$\leq 5\%$	$\leq 5\%$
resolution ratio	0.001g rms	0.01 m/s ² rms
Environmental character		
overload limit	± 3000 g pk	$\pm 29,400$ m/s ² pk
temperature range	-40~+257° F	-40~+125°C
Electrical character		
excitation voltage [4]	+18~+30 VDC	+18~+30 VDC
excitation current [5]	2~20 mA	2~20 mA
bias voltage [1]	8-12V	8-12V
electrical isolation	-	-
output polarity [1]	positive	positive
physical character		
sensing geometry	ceramic	ceramic
stucture mode	shear	shear
housing material	Stainless steel	Stainless steel
sealing mode	laser welding	laser wleding
dimension	0.43×1.37 in	11×35mm
weight [1]	0.28oz	8.1g
electrical connector	10-32UNF	10-32UNF
electrical connection location	Intergrated cable	Intergrated cable
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, recommended 24V.
- [5] excitation current recommended 4mA.
- [6] Waterproof depth of 50 meters

DRAWING:

