



Model Number
3049E

PERFORMANCE SPECIFICATIONS

DOC NO
PS3049E

IEPE ACCELEROMETER

REV C, ECN 15295, 09/03/11



MINIATURE DESIGN

- HERMETICALLY SEALED
- LOW-OUTGASSING
- BASE ISOLATED

PHYSICAL	
Weight, Max.	
Connector, Top Mounted	
Mounting Provision	
Material (Base, Cap, Connector)	

Sensing Element

PERFORMANCE Sensitivity, ±5% [1]

Range for ± 5 Volts Output Frequency Response, ± 5%

Equivalent Electrical Noise Floor

Maximum Transverse Sensitivity Base Strain Sensitivity @ 250με

Resonant Frequency

ENVIRONMENTAL

Maximum Vibration

Temperature Range

Output Impedence, Typ.

Discharge Time Constant

Maximum Shock

ELECTRICAL
Supply Current Range [3]
Compliance Voltage Range

Rias Voltage

Seal

Linearity, [2]

Material Mode -

0.15	
10-32	
Integral Stud 10-32 UNF-2A	
Titanium Alloy	
Ceramic	
Shear	

	_
10	mV/g
500	g
1 to 10,000	Hz
> 35	kHz
0.003	Grms
±2	% F.S.
5	%
0.004	g/με

ENGLISH

ΟZ

Gpeak

Gpeak

600
5000
-60 to +250
Hermetic

2 to 20	mA
+18 to +30	Volts
100	Ω
+11 to +13	VDC
0.5 to 1.2	Sec
Positive	
10	GΩ

4.2
10-32
Integral Stud 10-32 UNF-2A
Titanium Alloy
Ceramic
Shear

1.0	mV/m/s ²
4905	m/s ²
1 to 10,000	Hz
> 35	kHz
0.03	m/s² rms
±2	% F.S.
5	%
0.04	m/s²/με

5886	m/s² peal
49050	m/s² peal
-51 to 121	°C
Hermetic	

	_
2 to 20	mA
+18 to +30	Volts
100	Ω
+11 to +13	VDC
0.5 to 1.2	Sec
Positive	1
10	GΩ

This family also incl	udes:	
Model	Sensitivity (mV/a)	Frequency Response (H

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

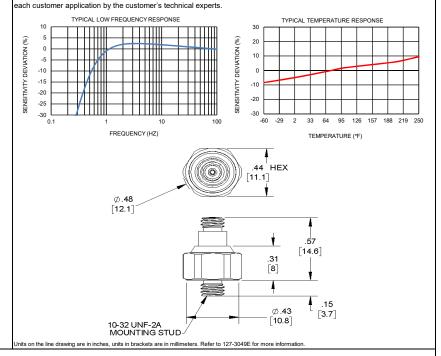
1) Accredited calibration certificate (ISO 17025)

Notes:

grams

[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.

- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [4] In the interest of constant product improvement, we reserve the rights to change the specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for





Output Signal Polarity for Acceleration Toward Top Electrical Isolation (Case Ground to Mounting Surface)

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