

Model Number DOC NO PERFORMANCE SPECIFICATIONS 3023A5 PS3023A5 TRI AXIAL IEPE ACCELEROMETER REV K, ECN 14272, 06/18/18

grams

mV/m/s2 m/s²

Hz

Hъ

kHz

m/s2 rms

m/s2 rms/v(Hz)

m/s2 rms/v(Hz)

m/s2 rms/v(Hz)

m/s2 rms/v(Hz)

% F.S.

m/s²/με

m/s2 peak

m/s2 peak

°C

 $G\Omega$,min

SI

3.0

1/4-28 UNF-2A Adhesive Mount

Titanium Alloy

Quartz

Shear

0.1

±49033

1.5 to 5000

1.5 to 10000

> 40

0.07

0.29

0.098

0.0196

0.0049

0.0039

1

5

0.38

±58860

±98100

-51 to +121



- MINATURE SIZE
- EXCELLENT LINEARITY
- ULTRA LOW WEIGHT

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)
3023A	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A1	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A2	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250
3023A3	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A4	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A6	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250
3023A9	1 (±10%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250

PHYSICAL

Weight, Max. Connector Mounting Provision Material, Housing/Connector Sensing Element Element Style

PERFORMANCE

Sensitivity, ±5% Range for ± 5 Volts Output Frequency Response -5 / +15% Resonant Frequency Broad Band Resolution [5]

Spectral Noise 1.25Hz 10Hz 100Hz

1000Hz 10000Hz Linearity [2]

Maximum Transverse sensitivity Strain Sensitivity @ 250με

ENVIRONMENTAL

Maximum Vibration Maximum Shock Temperature Range Magnetic Sensitivity at 100 Gauss

ELECTRICAL

Supply Current Range [3] Compliance Voltage Range Output Impedance, Typ Bias Voltage Discharge Time Constant Electrical Isolation

ENGLI	SH
0.11	
1/4-28 UNF-2A	
Adhesive Mount	
Titanium Alloy	
Quartz	

Shear

0.0005

0.0004

1

5

0.039

1	mV/g
±5000	g
1.5 to 5000	Hz
1.5 to 10000	Hz
> 40	kHz
0.007	Grms
0.03	Grms/v(Hz)
0.01	Grms/v(Hz)
0.002	Grms/√(Hz)

ΟZ

Grms/v(Hz)

Grms/v(Hz)

% F.S.

%

g/με

±6000	Gpeak
±10000	Gpeak
-60 to +250	°F
Hermetic	
0.00005	g/Gauss

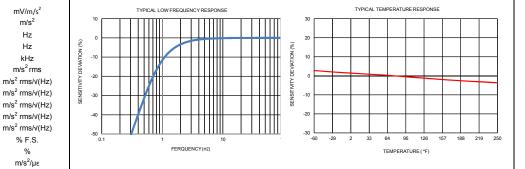
	_
2 to 20	mA
18 to 30	Volts
100	Ω
7 to 11	VDC
0.3 to 1.5	Sec
Case Grounded	GΩ,mi

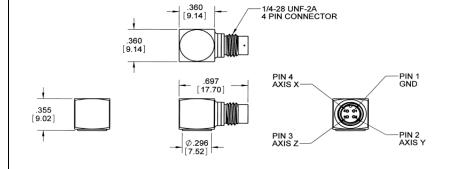
Ticinica	
4.905	m/s ² /T
	•
2 to 20	mA
18 to 30	Volts
100	Ω
7 to 11	VDC
0.3 to 1.5	Sec

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

- [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 right to change specifications without notice.
- [5] Typical. Not to exceed .010 Grms [.10 m/s²].





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A5 for more information.



Case Grounded