

MODEL NUMBER PERFORMANCE SPECIFICATION 3224A3

DOC NO.

PS3224A3

IEPE ACCELEROMETER

REV B,ECN 6440,12/12/09



• MINIATURE SIZE

• EPOXY SEALED CABLE CONNECTION

•	IVIII	MIM	ıvı	\ L	SIZI

ΩZ

Weight, Less Cable Mounting Provision Connector [2] Case Material

Sensing Element

PERFORMANCE

Sensitivity [3] [4] Range F.S. For ± 5 Volts Output Frequency Response, ±10% Resonant Frequency, NOM Equivalent Electrical Noise Floor Amplitude Non-Linearity [5] Fransverse Sensitivity, Max. Strain Sensitivity @250µɛ

ENVIRONMENTAL

Maximum Vibration Maximum Shock Temperature Range

ELECTRICAL

Supply Current [6] Compliance Voltage Range Output Impedance TYP Bias Voltage Discharge Time Constant Output Signal Polarity for Acceleration Toward Top. Case Grounding

ENGLISH			
0.007			
[1]			
Integral cable			
Titanium			
Planar Shear Piezoceramic			

	-
5 to 10	mV/g
± 1000	g
0.4 to 20000	Hz
>95	kHz
0.025	g rms
± 1 %	%F.S
5%	
0.14	g/με

650	grms
2000	±gpk
-60 to +300	°F
Laser Welded, Epoxy sealed Cable	

2 to 20	l mA
2 10 20	IIIA
18 to +30	V
100	Ω
+8 to +10	VDC
1.1 to 1.5	sec
Positive	Ī
[7]	

ritanium	
Planar Shear Piezoceramic	
0.5 to 1.0	mV/ m/s ² m/s ²
± 9810	m/s ²
0.4 to 20000	Hz
>95	kHz
0.25	m/s ² rms

SI

0.2

[1]

Integral cable

	_
6370	m/s² rms
19600	± m/s² pk
-51 to 149	°C
Laser Welded, Epoxy sealed Cable	

± 1%

5%

1.37

2 to 20	mA
18 to +30	V
70	Ω
+8 to +10	VDC
1.1 to 1.5	sec
Positive	Ī
[7]	Ī

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC (sec)
3224A1	9 to 14	500	0.017	-60 to 300	1.1 to 1.5
3224A2	2 to 5	2500	0.03	-60 to 300	0.3 to 0.5

Please, refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Model 6725 installation removal wrench.
- 2) Sample of " Small Petro Mounting Wax".
- 3) Accredited calibration certificate (ISO 17025)

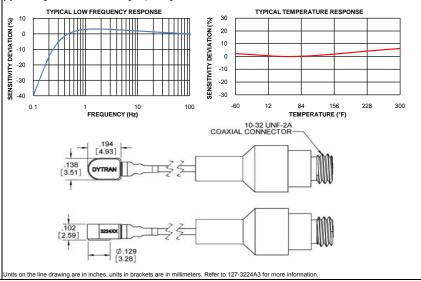
Notes:

grams

%F.S

m/s²/με

- [1] Flat mounting surface for adhesive mount.
- [2] 10-32 Jack at end of integral 3FT.cable
- [3] Measured at 100 Hz, 1 G rms per ISA RP 37.2.
- [4] Actual sensitivity is given on a calibration certificate traceable to ISO 17025, supplied with each instrument
- [5] Measured using zero-based best straight-line method.
- [6] Do not apply power to this device without current limiting, 20 mA MAX.
- To do so will destroy the integral IC amplifier.
- [7] Case is grounded to electrical signal/power ground.





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