

### **MODEL NUMBER** PERFORMANCE SPECIFICATION 3224A2

DOC NO.

PS3224A2

IEPE ACCELEROMETER

grams

REV F,ECN 6896, 06/23/10



MINIATURE CIZE

• EP

•	IVIII	NIA	IUI	₹Ε	SIZ
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IINIATURE SIZE	Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(*F)	IC (sec)
POXY SEALED CABLE CONNECTION	3224A1	9 to 14	500	0.017	-60 to 300	1.1 to 1.5
	3224A3	5 to 10	1000	0.025	-60 to 300	1.1 to 1.5
	Please refer t	o the performance s	necifications of th	ne products in this fai	mily for detailed de	scription

This family also includes:

### Supplied Accessories:

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

#### Notes:

- [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.

ENGLISH
0.007
[1]
Integral cable
Titanium
Planar Shear Piezoceramic

oz	0.2
	[1]
	Integral cable
	Titanium
	Planar Shear Piezoceramic

# Sensing Element PERFORMANCE

PHYSICAL

Connector [2]

Case Material

Weight, Less Cable

Mounting Provision

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

2 to 5	mV/g	0.2 to 0.5	mV/ m/s <sup>2</sup>
± 2500	g	± 24525	m/s <sup>2</sup>
2 to 20000	Hz	2 to 20000	Hz
>95	kHz	>95	kHz
0.03	g rms	0.29	m/s² rms
± 1 %	%F.S	± 1%	%F.S
5%		5%	
0.14	g/με	1.37	m/s²/με

# ENVIRONMENTAL

Maximum Vibration Maximum Shock Temperature Range

4000	grms
5000	±gpk
-60 to +300	°F
Laser Welded, Epoxy sealed Cable	

39200	m/s² rr
49000	± m/s <sup>2</sup>
-51 to 149	°C
Laser Welded, Epoxy sealed Cable	

## ELECTRICAL

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

2 to 20	mA
18 to +30	V
100	Ω
+7 to +9	VDC
0.3 to 0.5	sec
Positive	
[7]	
[7]	

2 to 20	mA
18 to +30	V
70	Ω
+7 to +9	VDC
0.3 to 0.5	sec
Positive	
[7]	

TYPICAL LOW FREQUENCY RESPONSE  SPINGLING  10  10  10  10  10  10  10  10  10  1	30 TYPICAL TEMPERATURE RESPONSE 20 10 10 1-10 1-20
0.3 3 30	-60 12 84 156 228 300
FREQUENCY (Hz)	TEMPERATURE (°F)  10-32 UNF-2A  COAXIAL CONNECTOR—
194 [4.93] 138 [3.51] <b>DYTRAN</b>	
102 [2.59] <b>3220X</b> 0.129 [3.28]	
Units on the line drawing are in inches, units in brackets are in millimeters. Re	efer to 127-3224A2 for more information.



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