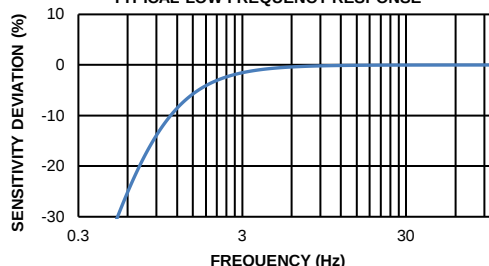
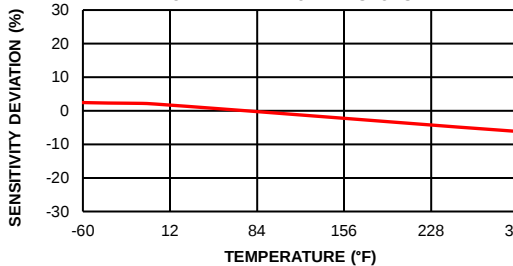
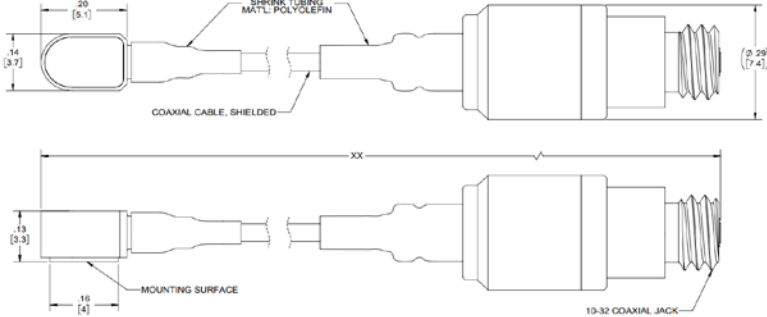


MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.																			
3224A1T-XX						PS3224A1T-XX																			
		IEPE ACCELEROMETER					REV F, ECN 17029, 01/19/23																		
		• MINIATURE SIZE • INTEGRAL CABLE W/ 10-32 CONNECTOR • TEDS FEATURE • ADHESIVE MOUNT																							
PHYSICAL	Weight, Less Cable	0.007	oz	0.2	grams																				
	Mounting Provision	[1]		[1]																					
	Connector [2]	Integral cable		Integral cable																					
	Case Material	Titanium		Titanium																					
	Sensing Element	Planar Shear Quartz		Planar Shear Quartz																					
	PERFORMANCE	Sensitivity, 25% [6]	1 to 2.5	mV/g	0.1 to 0.25	mV/ m/s ²																			
		Range F.S. For ± 5 Volts Output	± 5000	g pk	± 49050	m/s ² pk																			
Frequency Response, ±3dB		0.54 to 60000	Hz	0.54 to 60000	Hz																				
Resonant Frequency, NOM		>95	kHz	>95	kHz																				
Equivalent Electrical Noise Floor		0.08	g RMS	0.78	m/s ² RMS																				
Amplitude Non-Linearity [4]		± 1 %	%F.S	± 1%	%F.S																				
Transverse Sensitivity, Max.		5%		5%																					
Strain Sensitivity @250µε	0.14	g/µε	1.37	m/s ² /µε																					
ENVIRONMENTAL	Maximum Shock	2000	g pk	19600	m/s ² pk																				
	Temperature Range	-60 to +300	°F	-51 to 149	°C																				
	TEDs Operating Temperature	-40 to +185	°F	-40 to +85	°C																				
	Seal	Laser Welded, Epoxy sealed Cable		Laser Welded, Epoxy sealed Cable																					
	Magnetic Sensitivity at 100 Gauss	0.000009	g/Gauss	0.8829	m/s ² /T																				
ELECTRICAL	Supply Current [5]	2 to 20	mA	2 to 20	mA																				
	Compliance Voltage Range	+18 to +30	V	+18 to +30	V																				
	Output Impedance TYP	100	Ω	100	Ω																				
	Bias Voltage	+7 to +10	VDC	+7 to +10	VDC																				
	Discharge Time Constant	0.3 to 2.5	sec	0.3 to 2.5	sec																				
	Output Signal Polarity for Acceleration Toward Top	Positive		Positive																					
	Case Grounding	[7]		[7]																					
This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (g pk)</th><th>Resolution (g RMS)</th><th>Oper. Temp(°F)</th><th>TC (sec)</th></tr><tr><td>3224A2T-XX</td><td>5 to 10</td><td>1000</td><td>0.037</td><td>-60 to 300</td><td>1.1 to 2.5</td></tr><tr><td>3224A3T-XX</td><td>9 to 14</td><td>500</td><td>0.023</td><td>-60 to 300</td><td>0.9 to 2.5</td></tr></table> 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: [1] Flat mounting surface for adhesive mount. [2] 10-32 Jack at end of integral variable length.cable [3] Actual sensitivity is given on a calibration certificate traceable to ISO 17025, supplied with each instrument. [4] Measure using zero-based straight line method, % of F.S. or any lesser range. [5] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier. [6] All specifications are at room temperature unless otherwise specified. [7] Case is grounded to electrical signal/power ground. [8] 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 each customer application by the customer's technical experts. TYPICAL LOW FREQUENCY RESPONSE  TYPICAL TEMPERATURE RESPONSE   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A1T-XX for more information.								Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp(°F)	TC (sec)	3224A2T-XX	5 to 10	1000	0.037	-60 to 300	1.1 to 2.5	3224A3T-XX	9 to 14	500	0.023	-60 to 300	0.9 to 2.5
Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp(°F)	TC (sec)																				
3224A2T-XX	5 to 10	1000	0.037	-60 to 300	1.1 to 2.5																				
3224A3T-XX	9 to 14	500	0.023	-60 to 300	0.9 to 2.5																				

