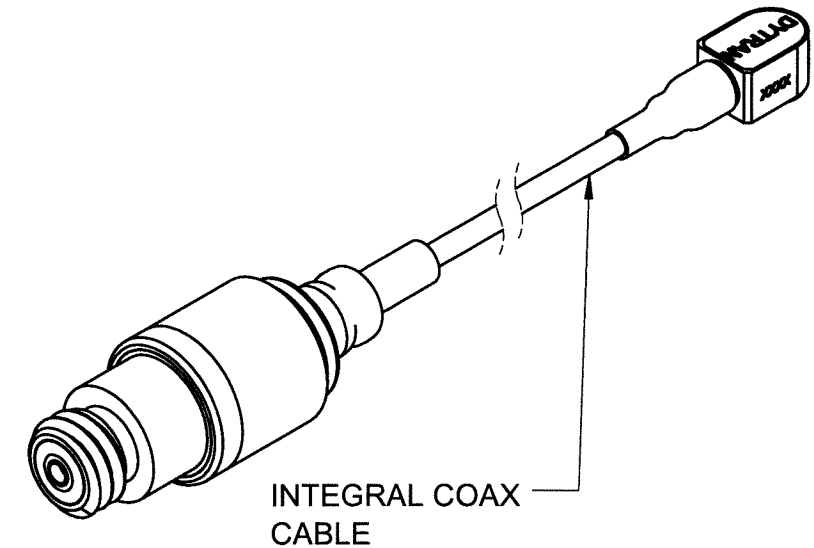
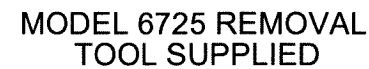
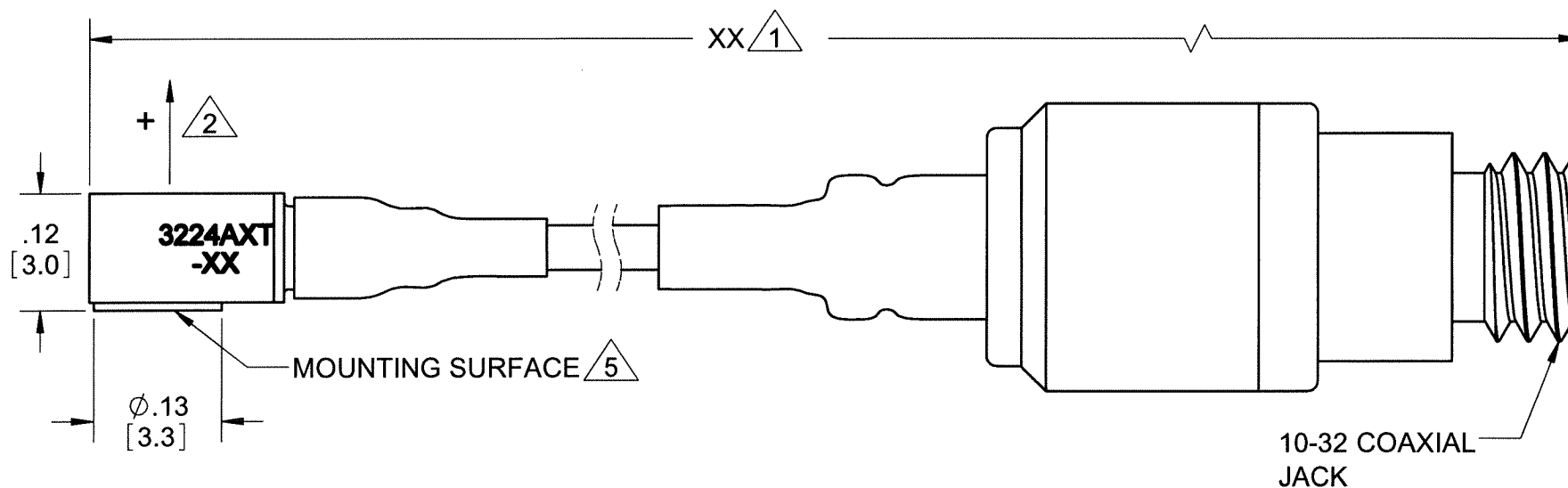



REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14914	INITIAL RELEASE. SAME AS REV X1.	KG 09/20/19	AM	W

≤1FT	+1/ -0 IN
>1 FT - 5 FT	+2/ -0 IN
> 5 FT - 10 FT	+4/ -0 IN
>10 FT - 25FT	+6 / -0 IN
>25 FT	+5% / -0%



SCALE 3:1




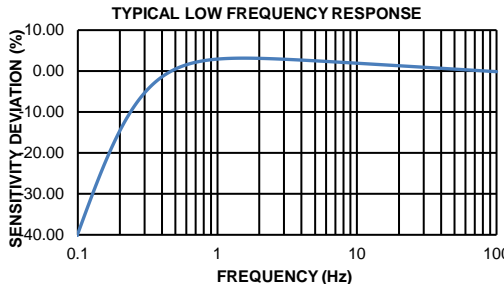
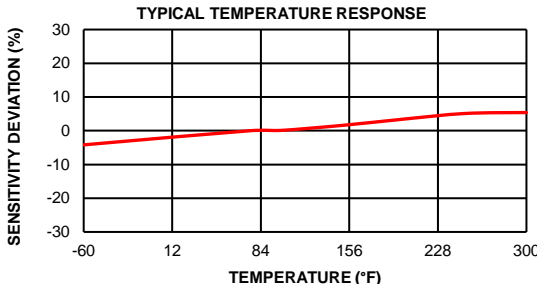
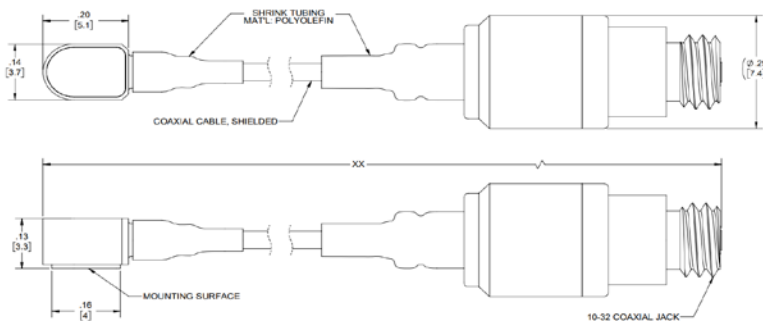
 4-WIRE CABLE, SHIELDED, 36AWG	
WIRE	36 AWG, 7/44 SILVER PLATED COPPER
DIELECTRIC	PFA, .006 NOMINAL WALL
SHIELD	44 AWG SILVER PLATED SOFT COPPER BRAID
JACKET	PFA, WHITE, .006 INCH NOMINAL WALL
DIAMETER	Ø .045" [1.15 MM] NOMINAL
COLOR	WHITE
TEMPERATURE RATING	-196°C TO +200°C [-321°F TO +392°]
VOLTAGE	150 VOLTS AC

NOTES: UNLESS OTHERWISE SPECIFIED

ALL MACHINED SURFACES.
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

DO NOT SCALE DRAWING

TITLE:			
OUTLINE/INSTALLATION DRAWING, SERIES 3224A1T-XX			
SIZE B	CAGE CODE 2W033	DWG NO 127-3224A1T-XX	REV A
SCALE: 2:1		SHEET 1 OF 1	

MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.																			
3224A2T-XX						PS3224A2T-XX																			
		IEPE ACCELEROMETER			REV D, ECN 17029, 01/19/23																				
<div><div></div><div><ul style="list-style-type: none">• MINIATURE SIZE• INTEGRAL CABLE W/ 10-32 CONNECTOR• TEDS FEATURE• ADHESIVE MOUNT</div></div>																									
PHYSICAL		ENGLISH		SI																					
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 Piezoceramic		Planar Shear Piezoceramic																						
PERFORMANCE																									
Sensitivity [4]	5 to 10	mV/g	0.5 to 1.0	mV/ m/s ²																					
Range F.S. For ± 5 Volts Output	± 1000	g pk	± 9810	m/s ² pk																					
Frequency Response, ±10%	0.24 to 20000	Hz	0.24 to 20000	Hz																					
Resonant Frequency, NOM	>95	kHz	>95	kHz																					
Equivalent Electrical Noise Floor	0.037	g RMS	0.36	m/s ² RMS																					
Amplitude Non-Linearity [5]	± 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 [6]	2 to 20	mA	2 to 20	mA																					
Compliance Voltage Range	+18 to +30	V	+18 to +30	V																					
Output Impedance TYP	100	Ω	70	Ω																					
Bias Voltage	+7 to +13	VDC	+7 to +13	VDC																					
Discharge Time Constant	1.1 to 2.5	sec	1.1 to 2.5	sec																					
Output Signal Polarity for Acceleration Toward Top	Positive		Positive																						
Case Grounding	[7]		[7]																						
<div><div><div>This family also includes:</div><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>3224A1T-XX</td><td>1 to 2.5</td><td>5000</td><td>0.08</td><td>-60 to 300</td><td>0.3 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></div><div>Please refer to the performance specifications of the products in this family for detailed description.</div><div><div>Supplied Accessories:</div><div>1) Model 6725 installation removal wrench.</div><div>2) Sample of "Small Petro Mounting Wax".</div><div>3) Accredited calibration certificate (ISO 17025)</div></div><div><div>Notes:</div><div>[1] Flat mounting surface for adhesive mount.</div><div>[2] 10-32 Jack at end of integral variable length.cable</div><div>[3] Actual sensitivity is given on a calibration certificate traceable to iso 17025, supplied with each instrument.</div><div>[4] All specifications are at room temperature unless otherwise specified.</div><div>[5] Measured using zero-based best straight-line method, % of F.S. or any lesser range.</div><div>[6] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.</div><div>[7] Case is grounded to electrical signal/power ground.</div><div>[8] In the interest of constant product improvement, we reserve the rights to change the specifications without notice.</div></div><div>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.</div><div><div><div><div>TYPICAL LOW FREQUENCY RESPONSE</div></div><div><div>TYPICAL TEMPERATURE RESPONSE</div></div></div><div></div><div>Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A1T-XX for more information.</div></div></div>								Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp(°F)	TC (sec)	3224A1T-XX	1 to 2.5	5000	0.08	-60 to 300	0.3 to 2.5	3224A3T-XX	9 to 14	500	0.023	-60 to 300	0.9 to 2.5
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