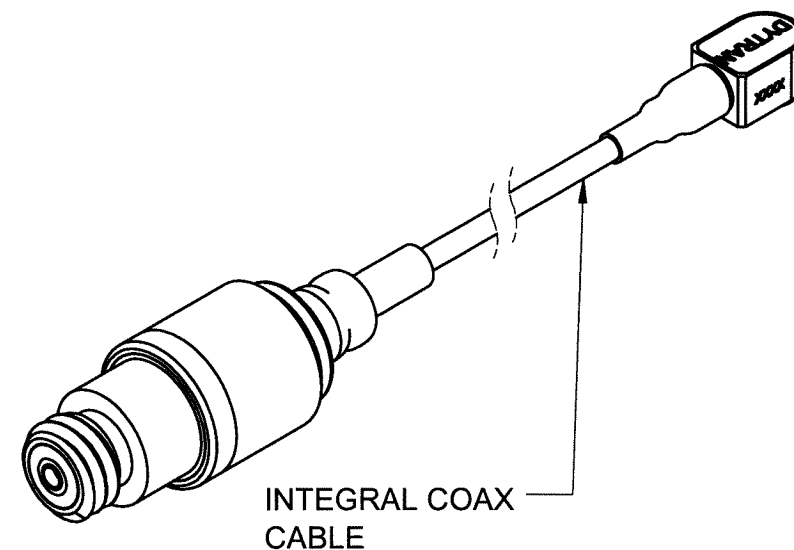
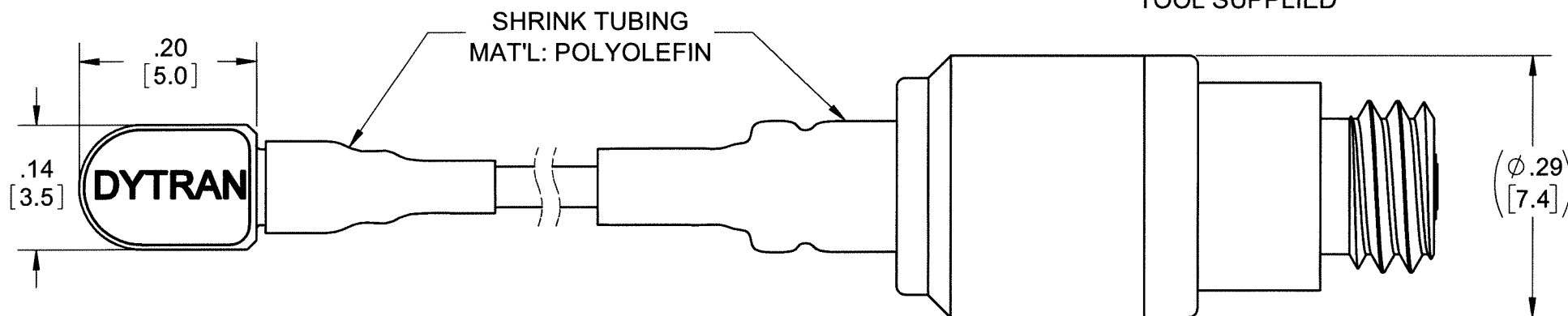


| REVISIONS |       |                                  |                |     |      |
|-----------|-------|----------------------------------|----------------|-----|------|
| REV       | ECN   | DESCRIPTION                      | BY/DATE        | CHK | APPR |
| A         | 14914 | INITIAL RELEASE. SAME AS REV X1. | KG<br>09/20/19 | AM  | LW   |

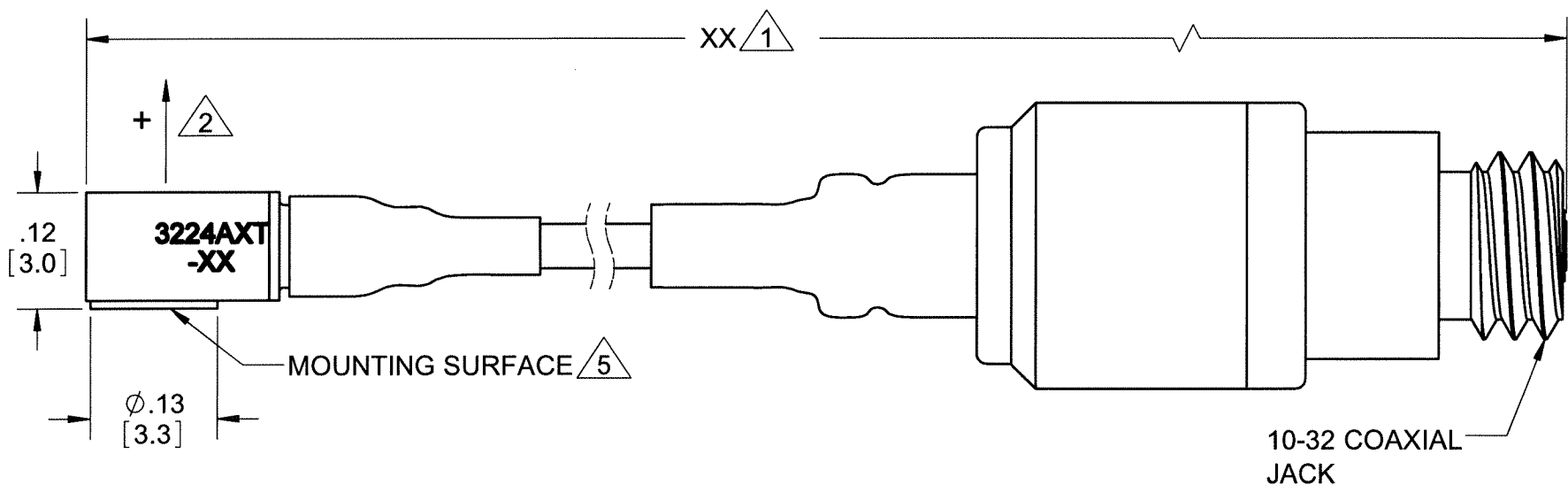
|                |            |
|----------------|------------|
| ≤1FT           | +1/ -0 IN  |
| >1 FT - 5 FT   | +2/ -0 IN  |
| > 5 FT - 10 FT | +4/ -0 IN  |
| >10 FT - 25FT  | +6 / -0 IN |
| >25 FT         | +5% / -0%  |



MODEL 6725 REMOVAL  
TOOL SUPPLIED



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.

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES.  
DIMENSIONS IN BRACKETS [ ] ARE IN  
MILLIMETERS TOLERANCES ARE:

| DECIMALS        | METRIC         | ANGLES   |
|-----------------|----------------|----------|
| .XX $\pm$ .03   | .X $\pm$ 0.8   |          |
| .XXX $\pm$ .010 | .XX $\pm$ 0.25 | $\pm$ 1° |

| APPROVALS |    | DATE     |
|-----------|----|----------|
| ORIG      | KG | 04/04/19 |
| CHK       | AM | 10/02/19 |
| APP       | W  | 10/03/19 |

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES.  
DIMENSIONS IN BRACKETS [ ] ARE IN  
MILLIMETERS TOLERANCES ARE:

ANGLES  
+1°

DATE \_\_\_\_\_



**MASTER**  
Chatsworth, CA ONLY IF IN RED

TITLE:

OUTLINE/INSTALLATION  
DRAWING, SERIES 3224A1T-XX

|      |  |
|------|--|
| SIZE |  |
| D    |  |

CAGE CODE  
2W033

|        |  |
|--------|--|
| DWG NO |  |
|--------|--|

127-3224A1T-XX

REV  
A

SCALE: 6:1

6:1

SHEET 1 OF 1

|                                                                                  |  |                                                                                                                                                              |  |                                  |  |                                 |  |
|----------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|--|---------------------------------|--|
| MODEL NUMBER<br>3224A2T-XX                                                       |  | PERFORMANCE SPECIFICATION                                                                                                                                    |  |                                  |  | DOC NO.<br>PS3224A2T-XX         |  |
|                                                                                  |  | IEPE ACCELEROMETER                                                                                                                                           |  |                                  |  | REV D, ECN 17029, 01/19/23      |  |
|  |  | <ul style="list-style-type: none"><li>• MINIATURE SIZE</li><li>• INTEGRAL CABLE W/ 10-32 CONNECTOR</li><li>• TEDS FEATURE</li><li>• ADHESIVE MOUNT</li></ul> |  |                                  |  |                                 |  |
| 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 <sup>2</sup> |  |
| Range F.S. For ± 5 Volts Output                                                  |  | ± 1000                                                                                                                                                       |  | g pk                             |  | ± 9810 m/s <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> /µε       |  |
| ENVIRONMENTAL                                                                    |  |                                                                                                                                                              |  |                                  |  |                                 |  |
| Maximum Shock                                                                    |  | 2000                                                                                                                                                         |  | g pk                             |  | 19600 m/s <sup>2</sup> 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 <sup>2</sup> /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]                             |  |

**This family also includes:**

| 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 |

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] All specifications are at room temperature unless otherwise specified.

[5] Measured using zero-based best straight-line method, % of F.S. or any lesser range.

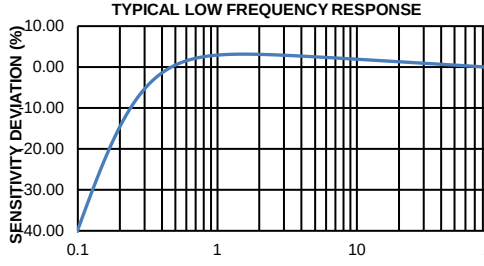
[6] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.

[7] Case is grounded to electrical signal/power ground.

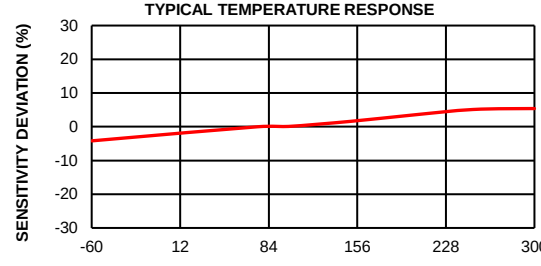
[8] In the interest of constant product improvement, we reserve the rights to change the specifications without notice.

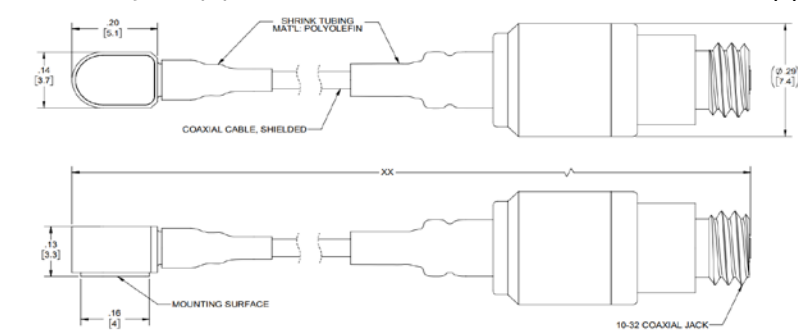
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. 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.



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