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CABLE LENGTH TOLERANCE

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

MODEL REV EN DATE SPRING SET TUBE I.D. MIN /'
3054B G 13088 11/09/16 6567A 0.318
3054B1 A 13801 10/20/17 6567A1 0.552
3054B2 A 13801 10/20/17 6567A4 0.438
3054B3 A 13801 10/20/17 6567A5 0.650
3054B4 A 13801 10/20/17 6567A6 0.912
3054M1 F 13088 11/09/16 6567A2 0.650

THIS ASSEMBLY IS DESIGNED TO FIT INTO MINIMUM INSIDE DIAMETER TUBE AS INDICATED BY VARIATION TABLE.

SEE CABLE TOLERANCE TABLE

NOTES: UNLESS OTHERWISE SPECIFIED

CABLE COLOR CODE
WHITE/BLUE AXIS 1
WHITE/ORANGE AXIS 2
WHITE COMMON GND

AWG 30-7/38 NICKEL PLATED COPPER
TEMP 200 DEG C WIRE RATED
VOLTAGE 600 VOLS
CONDUCTOR INSULATION EXTRUDED PTFE, CLEAR, Ø 032 NOM.
LOW NOISE WRAP #1 & #2 CARBON TAPE
SHIELD 38 AWG SILVER PLATED COPPER BRAID, 85% MIN COVERAGE, Ø 050 NOM
JACKET RED PTFE WRAP
DIAMETER Ø.073 NOM.

SINGLE CONDUCTOR LOW NOISE CABLE

OUTLINE/INSTALLATION DRAWING, 3054B

SCALE 2 : 1

NOTES: UNLESS OTHERWISE SPECIFIED

REMOVE BURRS.
COUNTERSINK INTERNAL THDS 90' TO MAJOR DIA,
CHAM EXT THDS 45' TO MINOR DIA.
THÊ LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
DIMENSIONS APPLY AFTER FINISHING.
ALL MACHINED SURFACES
TOTAL RUNOUT WITHIN .005,
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A4.1.
ABBREVIATIONS PER MIL-STD-12.
### PERFORMANCE SPECIFICATION

**BIAXIAL IEPE ACCELEROMETER**

**This family also includes:**

- MINIATURE SIZE
- SUBMERSIBLE
- HERMETICALLY SEALED
- CASE GROUND ISOLATED

### PHYSICAL

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, Less Cable, Max. Cable</td>
<td>0.25 oz</td>
</tr>
<tr>
<td>Mounting Provision, [5]</td>
<td>Spring Clips</td>
</tr>
<tr>
<td>Sensing Material</td>
<td>Quartz</td>
</tr>
</tbody>
</table>

### PERFORMANCE

<table>
<thead>
<tr>
<th>Sensitivity, ±10% [1]</th>
<th>25 mV/g</th>
<th>2.6 mV/m/s²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range F.S for ± 5 Volts Output (each axis), ±</td>
<td>200 g</td>
<td>1962 m/s²</td>
</tr>
<tr>
<td>Frequency Response, ±10% [4]</td>
<td>2 to 500 Hz</td>
<td>2 to 500 Hz</td>
</tr>
<tr>
<td>Resonant Frequency</td>
<td>&gt;30 kHz</td>
<td>&gt;30 kHz</td>
</tr>
<tr>
<td>Equivalent Electrical Noise Floor, Max.</td>
<td>0.003 Gms</td>
<td>0.03 m/s² rms</td>
</tr>
<tr>
<td>Linearity [2]</td>
<td>± 1 % F.S.</td>
<td>± 1 % F.S.</td>
</tr>
<tr>
<td>Maximum Transverse Sensitivity</td>
<td>5 %</td>
<td>5 %</td>
</tr>
<tr>
<td>Signal Polarity</td>
<td>Orthogonal &amp; Transverse</td>
<td>Orthogonal &amp; Transverse</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Maximum Vibration, ±</th>
<th>600 Gpeak</th>
<th>5886 m/s² peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Shock</td>
<td>1000 Gpeak</td>
<td>9810 m/s² peak</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-65 to +250 °F</td>
<td>-54 to +121 °C</td>
</tr>
<tr>
<td>Seal</td>
<td>Hermetic</td>
<td>Hermetic</td>
</tr>
</tbody>
</table>

### ELECTRICAL

<table>
<thead>
<tr>
<th>Supply Current Range [3]</th>
<th>2.0 to 20 mA</th>
<th>2.0 to 20 mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance Voltage Range</td>
<td>+18 to +30 Vols</td>
<td>+18 to +30 Vols</td>
</tr>
<tr>
<td>Output Impedance, Typ.</td>
<td>100 Ω</td>
<td>100 Ω</td>
</tr>
<tr>
<td>Output Bias Voltage</td>
<td>+7 to +9 VDC</td>
<td>+7 to +9 VDC</td>
</tr>
<tr>
<td>Discharge Time Constant</td>
<td>0.2 to 1.0 Sec</td>
<td>0.2 to 1.0 Sec</td>
</tr>
<tr>
<td>Ground Isolation, Min.</td>
<td>10 MΩ</td>
<td>10 MΩ</td>
</tr>
</tbody>
</table>

**Notes:**

1. Accredited calibration certificate (ISO 17025) (Supplied)
2. Measured at 100Hz, 1 Gm per ISA RP 37.2
3. Measured using zero-based straight line method, % of F.S. or any lesser range.
4. Upper frequency response is limited by resonance of mounting springs and body mass.
5. Unit slides into Ø.318 min. I.D. tube on springs.

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3054B for more information.

Refer to the performance specifications of the products in this family for detailed description.

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21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com