## TOLERANCES PER ASME Y14.5M

**DUAL CHANNEL ROTARY JOINT**

**THIRD ANGLE PROJECTION**

**CAGE CODE:** LITTLETON, MA  01460

**TITLE:**

**SIZE:**

**SCALE: 2:1**

**LITTLETON, MA 01460**

**DRAWING NUMBER:** CAT 15-22124-0

**SHEET:** 01882  1 OF 1

**DIMENSIONS ARE IN INCHES.**

**REMOVE ALL BURRS AND SHARP EDGES .005 MAX, UNLESS OTHERWISE SPECIFIED, SURF FINISH 63**

**TOLERANCES ARE:**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>.23</td>
<td>±.03</td>
</tr>
<tr>
<td>1.00</td>
<td>±.02</td>
</tr>
<tr>
<td>1.42</td>
<td>±.02</td>
</tr>
<tr>
<td>.10</td>
<td>±.02</td>
</tr>
<tr>
<td>.14</td>
<td>±.02</td>
</tr>
<tr>
<td>.23±.03</td>
<td></td>
</tr>
<tr>
<td>1.900</td>
<td>±.001</td>
</tr>
<tr>
<td>30°±2°</td>
<td></td>
</tr>
<tr>
<td>.21</td>
<td>MAX. ALLOWABLE SCREW DEPTH</td>
</tr>
<tr>
<td>4X R.25</td>
<td></td>
</tr>
<tr>
<td>.551±.005</td>
<td></td>
</tr>
<tr>
<td>.571±.005</td>
<td></td>
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<tr>
<td>.553±.005</td>
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</tbody>
</table>

**ELECTRICAL**

<table>
<thead>
<tr>
<th>CH 1 TX</th>
<th>CH 2 RX</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREQUENCY (GHz): 29-31</td>
<td>19.2 - 21.2</td>
</tr>
<tr>
<td>INSERTION LOSS (dB, MAX): 0.35</td>
<td>0.7</td>
</tr>
<tr>
<td>INSERTION LOSS WOW (dB, MAX): 0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>PHASE WOW (deg): 2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>PEAK POWER @ 45,000 FT (MAX): 100 W</td>
<td>5 W</td>
</tr>
<tr>
<td>PEAK POWER @ 55,000 FT (MAX): 50 W</td>
<td>5 W</td>
</tr>
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<td>AVERAGE POWER @ 45,000 FT (MAX): 100 W</td>
<td>5 W</td>
</tr>
<tr>
<td>AVERAGE POWER @ 55,000 FT (MAX): 50 W</td>
<td>5 W</td>
</tr>
<tr>
<td>RF SHIELDING (dB, MIN): 65</td>
<td>65</td>
</tr>
<tr>
<td>ISOLATION (dB, MIN): 2.5 mOHMS DC BLOCKING 600 VDC</td>
<td></td>
</tr>
</tbody>
</table>

**MECHANICAL & ENVIRONMENTAL**

| ALTIMETER, OPERATING: | 0 TO 55,000 FEET |
| ROTATIONAL SPEED: | 25 RPM MAX |
| LIFE: | 20 YEARS |
| TEMPERATURE, OPERATING: | -55 °C TO +70 °C |
| TEMPERATURE, NON-OPERATING: | -55 °C TO +85 °C |
| TORQUE: | 14 IN-OZ MAX |
| WEIGHT: | .5 LBS MAX |
| MATERIAL: | PRIMARILY ALUMINUM ALLOY - CHEMICAL CONVERSION COAT MIL-DTL-5541, REF. 15-22124-200 |
| MARKING: | AS INDICATED PER MIL-STD-130 .03 - .06 HIGH CHARACTERS BLACK EPOXY INK AA56302-3BLK OR LASER MARK. |

**DESIGN SPECIFICATIONS**

| ELECTRICAL BONDING (MAX): | 2.5 mOHMS DC BLOCKING 600 VDC |
| DC BLOCKING 600 VDC | 600 VDC |

**RF SHIELDING (dB, MIN): 65**

**ISOLATION (dB, MIN): 2.5 mOHMS**

**ELECTRICAL BONDING (MAX): 2.5 mOHMS**

**DC BLOCKING 600 VDC**