**Design Specifications**

**Electrical**

<table>
<thead>
<tr>
<th>Channel</th>
<th>Frequency (GHz)</th>
<th>VSWR (Max)</th>
<th>Power (Watts)</th>
<th>Phase Margin (°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAN 1</td>
<td>2.7 - 2.9</td>
<td>1.2:1</td>
<td>1.63</td>
<td>1.6</td>
</tr>
<tr>
<td>CHAN 2</td>
<td>1.01 - 1.11</td>
<td>1.2:1</td>
<td>1.63</td>
<td>1.6</td>
</tr>
<tr>
<td>CHAN 3</td>
<td>1.01 - 1.11</td>
<td>1.2:1</td>
<td>1.63</td>
<td>1.6</td>
</tr>
<tr>
<td>CHAN 4</td>
<td>1.01 - 1.11</td>
<td>1.2:1</td>
<td>1.63</td>
<td>1.6</td>
</tr>
<tr>
<td>CHAN 5</td>
<td>1.01 - 1.11</td>
<td>1.2:1</td>
<td>1.63</td>
<td>1.6</td>
</tr>
</tbody>
</table>

**Mechanical & Environmental**

- **Rotational Speed:** 15 RPM Max
- **Pressure:** 25 PSIG
- **Leak Rate:** 25 cc/min @ 5 psi across the -40ºC to 55ºC temp range, 10,000 ft above sea level
- **Material:** Aluminum Alloy Primarily
- **Finish:** Red
- **Masking:** Surfaces indicated with ∆

**Design Notes**

- Design is compliant with RoHS
- Mechanical & Environmental specifications
- Dimensions are in inches
- Tolerances are ±0.005 unless otherwise specified
- Surfaces indicated with ∆

**Dimensions**

- (dimensions in inches and millimeters)
- All burrs and sharp edges are removed
- Hard Anodize

**Connectors**

- N

**Provision for Dual Azimuth Encoders**

- Coupling Access

**Design/Engineering**

- Diamond Antenna & Microwave Corp
- Littleton, MA 01460

**Title**

- Five Channel Assy

**Drawing Number**

- D 01882

**Cage Code**

- 01882

**Scale**

- 2:5

**Weight (Est.)**

- 80 LBS