**Main Assembly**

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**Roll-Ring Specifications:**
- **No. of Channels:** 19 (all channels identical)
- **Voltage:** 120 VAC/24 VDC
- **Current:** 10 AMPS
- **Electrical isolation:** 500 MEGAOHMS @ 500 VDC between any 2 channels

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**Electrical Specifications:**
- **Connector 1 (3102R22-14P) with Mate (3106R22-14S):**
  - **FREQUENCY (GHz):** 2.7 TO 2.9
  - **VSWR (MAX):** 1.2:1
  - **VSWR WOW (MAX):** 0.05
  - **INSERTION LOSS (dB MAX):** 0.15
  - **PHASE WOW:** -1º
  - **PEAK POWER (kW):** 35
  - **MEAN POWER:** 3000W
  - **PHASE TRACKING:** ±2º MAX. BETWEEN CHANNELS 4, 5 & 6
  - **ISOLATION:** 60dB BETWEEN CHANNELS
  - **WEIGHT:** 85 LBS MAX [32.6 Kg] (APPROX WEIGHT 68 LBS)
  - **Temperature (OPER):** -40º TO 55ºC
  - **Temperature (STORAGE):** -40º TO 70ºC
  - **Humidity (RH):** 100%
  - **Pressure:** Positive pressure to 2 PSI
  - **Leakage:** 25cc/min MAX @ 5 PSI across temp range @ 10,000 FT above sea level

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**Mechanical Specifications:**
- **Rotation Rate:** 15 RPM NOMINALLY
- **Life Expectancy:** 50,000 HRS. @ 15 RPM MAX (CONTINUOUS)
- **Torque:** 15 FT-LBS MAX
- **Paint:** TBD (Stations marked for paint)

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**DUAL 33 BIT ENCODERS**

- **NOTE:** To be supplied w/ protective cover (not shown)

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**Marking:**
- **LABEL:** See specs
- **DIAMOND PART NO.**
- **REVISION**
- **SERIAL NUMBER**

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**Wiring and Cage Specifications**

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**Rotation Area Indicated By:**

- **INGREDIENTS:**

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**Notes:**
- **DO NOT PAINT CONNECTORS OR CONNECTOR COVERS**
- **DO NOT PAINT COVERS**
- **W/G AND COAX SPECIFICATIONS**

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** Chan 1 (S-BAND)**
- **Chan 2 (S-BAND)**
- **Chan 3 (L-BAND)**
- **Chan 4 (S-BAND)**
- **Chan 5 (L-BAND)**
- **Chan 6 (L-BAND)**

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**Dimensions:**

- **E25:** 2.76
- **E12:** 6.65
- **E10:** 4.00
- **E8:** 3.25
- **E6:** 1.56
- **E4:** 0.78
- **E2:** 0.39
- **E1:** 0.20
- **E0:** 0.10

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**Connectors:**
- **Connector 1 (3102R22-14P)**
- **Connector 2 (3106R22-14S)**

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**Type N Conn (MARK: 'CH 2 THRU 5')**

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**Type N Conn (MARK: 'CH 6')**