**SPECIFICATIONS:**

**ROLL-ROD SPECIFICATIONS:**

- **Rings:**
  1. **AC Power Circuits:**
    - Rated Voltage: 220/380V, 50 Hz (5 Rings, Rings 1-5)
    - Rated Current: 10A
  2. **DC Circuits:**
    - Rated Voltage: 100V (12 Rings, Rings 6-17)
    - Rated Current: 1 mA to 1A
  3. **Data Circuits:**
    - Rated Voltage: 100V (9 Rings, Rings 18-26)

- **VSWR (10 KHz to 3 MHz):**
  - 1.1:1 max.
- **Impedance:**
  - 75 Ohm ± 5% in the band
- **Cross-talk Between Pairs:**
  - 50 dB at 10 KHz to 10 MHz

**CHARACTERISTICS COMMON TO ALL RINGS:**

- **Contact Resistance:**
  - J1, J4: 6 mohm max. for Rings 1-5
  - 15 mohm max. for Rings 6-17
- **Circuit Resistance:**
  - J1, J4: 30 mohm max. (between connectors)
  - J2, J5: 200 mohm max.
  - J3, J6: 60 mohm max.
- **Base Noise @ 6 RPM:**
  - 50 mohms max.
- **Insulation Resistance:**
  - 1000 Mohm min. at 500V DC between adjacent rings
- **Dielectric Strength:**
  - J1, J4: 2000V eff. 50 Hz, 1 sec.
  - J2, J5: 2000V eff. 50 Hz, 1 sec.
  - J3, J6: 1000V eff, 50 Hz
- **Life:**
  - 10,000 hours min.

**MECHANICAL:**

- **Leak Rate:**
  - 20 cc/min max.
- **Torque:**
  - 2 ft-lbs. max.
- **Rotation Rate:**
  - 6 RPM
- **Weight:**
  - TBD
- **Finish:**
  - TBD

**MARKINGS:**

- To include as minimum: Diamond Part # and Serial #

**ENVIRONMENTAL:**

- **Operating Temperature:**
  - -30° to +55° C
- **Storage Temperature:**
  - -40° to +70° C
- **Relative Humidity:**
  - 95% at 40°C
- **Atmospheric Pressure:**
  - 700 to 1100 mbar (260 mbar for aerial transport)
- **Other Conditions:**
  - It shall be able to withstand saline fog and sandy wind (exposed parts only)

**INTERPRET DIMENSIONS & ROLL-RING:**

- **Dimensions are in inches.**
- **Remove all burrs and sharp edges.**
- **0.005 max.**
- **Unspecified surfer finish 63.**

**TOLERANCES ARE:**

- **FRACTIONS:**
  - 1/64
- **DECIMALS:**
  - 2 PLACES: .03
  - 3 PLACES: .010

**D1.81±.04**

**D4.17±.010**

**D2.44±.02**

**THIRD ANGLE PROJECTION**

**CHANNEL ROTARY JOINT WITH 26 RING**

**DIAMOND ANTENNA & MICROWAVE CORP**

**LITTLETON, MA 01460**

**NOTE:**

- **SHIP IN SEPARATE PACKAGING**
- **CONNECTORS**
- **4X TYPE N - FEMALE**
- **STATIONARY**
- **P/N 2-383**
- **CONNECTOR CABLES**
  - **(WHOLE CABLE NOT SHOWN)**

**SPECIFICATIONS:**

- **Size:**
  - 1 OF 1 SHEET
  - **SCALE:**
    - 1:2
  - **WEIGHT:**
    - (EST.) CAT 2521-0
  - **CAGE CODE:**
  - **D**
  - **DRAWING NUMBER:**
  - **DRAWING NUMBER:**
  - **TITLE:**
  - **DATE:**

**NOTE:**

- **Ship in separate packaging**
- **Connectors**
  - **4X TYPE N - FEMALE**
  - **Stationary**
  - **P/N 2-383**
- **Connector Cables**
  - **(Whole cable not shown)**