**Design Specifications**

**Electrical**
- **Channel 1** (Inner)
  - Frequency (GHz): DC - 12
  - **VSWR (Max):** 1.5 (DC-2.4)
  - **Insertion Loss (dB Max):** 0.4
  - **Power, Peak:** 3 kW
  - **Power, Average:** 20 W (CW) @ 1 GHz
  - **Channel Isolation (Min):** 50 dB
- **Channel 2** (Outer)
  - Frequency (GHz): DC - 2.4
  - **VSWR (Max):** 1.5:1
  - **Insertion Loss (dB Max):** 0.5
  - **Power, Peak:** 3 kW
  - **Power, Average:** 20 W (CW) @ 1 GHz
  - **Channel Isolation (Min):** 50 dB

**Mechanical & Environmental**
- **Rotational Speed:** 100 RPM
- **Leakage:** 3 CC/Min
- **Pressure:** 2 PSIG
- **Torque:** 50 OZ-IN MAX
- **Material:** Aluminum and Non-Corrosive SST per MIL Specs
- **Finish:** Chromate CVN R per MIL-DTL-5541, Cl 3, Type 2 and-passivation per ASTM-A687
- **Marking:** Label in area indicated shall include as a minimum: Diamond Logo, P/N, Serial No.

**Dimensions**
- E0 SP as shown on B.C.
- 1.060
- 2 Flats
- Ø 1.50
- 1.25
- 1.60
- .53
- .53
- .406 TYP.
- 4X SMA Jacks
- 4X .27
- .24
- 2X 1/8" Barbed Hose Fitting (MC Master Carr P/N 2844K13)

**ROHS Compliant**

**Label**

**Third Angle Projection**

**Dimensions are in inches. Remove all burrs and sharp edges. Do not use nonstandard fasteners. Tolerances are per ASME Y14.5M.**