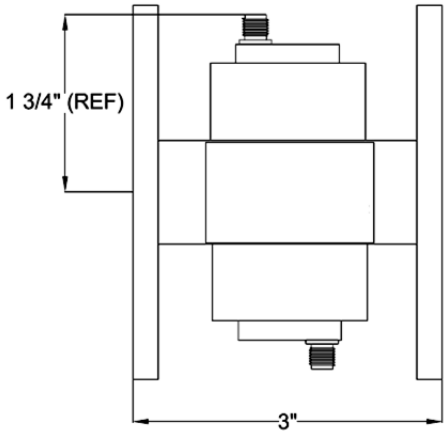
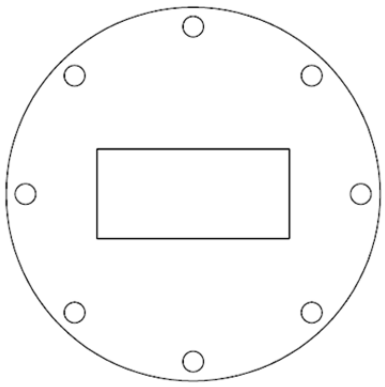
# Directional Coupler, 5.2-6.2GHz

## 10 Kilo Watts Average / 100kiloWatts Peak

## 40dB Coupling, WR187/ UG407, N Female Connectors



**Tolerance Table Metric (inch)**
(unless otherwise stated):
Hole diameter +/- 0.1mm, (+/- 0.004")
Dimensions (w*l*h) +/- 0.3 mm, (+/- 0.015")
Dimensions (Coax Connector position)
+/- 0.3mm, (+/- 0.012")
Dimensions (Waveguide Slot Position),
+/- 0.1mm, (+/- 0.04")
Dimensions (hole position) +/- 0.1mm, (+/- 0.04")
**Machined surfaces**
Flatness 0.025/mm, (0.001/ inch)
Bend radius 0.8mm, (0.031" or 1/32")

**Units: Inch**
**Not to scale**

**Note:**
**Drawing is Dual-Directional Coupler**
**For Directional Coupler will not have a probe in the other block**

**Order Examples:** **RBDCPL-5.2-6.2-40d-WR187-UG407-Nf-10KW Avg/ 100KW Pk-u5**
**Description:** *(Directional Coupler, 5.2-6.2GHz, WR187 Package/ UG407 Flange, N Female Connectors, 10 Kilo Watts Average Power, 100 Kilo Watts Peak Power)*

| Specifications | | | Unit |
|---|---|---|---|
| Frequency of operation | | **5.2-6.2** | GHz |
| Coupling | | 40 ±2.0 | dB max. |
| Flatness | | ±1.0 | dB typ. |
| Insertion loss | | 1.0 | dB typ. |
| VSWR | | 1.2:1 | (Max) |
| Directivity | | >25 | dB min. |
| | | 30 | dB typ. |
| Waveguide size | | WR187 | |
| Connectors | Mainline - Input | UG407 w/ 10-32 Helicoil inserts | |
| | Mainline - Output | UG407 w/ 10-32 Helicoil inserts | |
| | Secondary ports | N Female (SMA Female option available) | |
| Average Power | | 10 | kiloWatts |
| Peak Power | | 100 | kiloWatts |
| Material | | aluminum or copper and brass | |



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