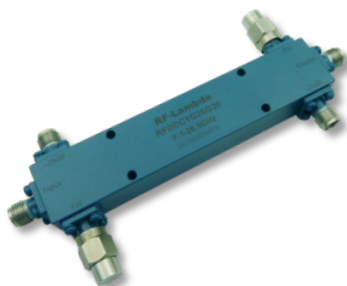


## Coaxial 30W 30dB Dual Directional Coupler 1 – 26.5GHz



*Note: The photo is for illustration purposes only.  
Please refer to the outline drawing.*

### Features

- High power handling up to 30W
- Ultra Wide band operation
- High directivity within operational band
- Low Insertion Loss
- High peak to average handling capability

### Typical Applications

- Test and Measurement
- Aerospace and military applications
- Wireless Infrastructure

### Electrical Specifications, $T_A=25\text{ }^{\circ}\text{C}$

| Parameter                       |         | Min.          | Typ.      | Max.      | Units  |
|---------------------------------|---------|---------------|-----------|-----------|--------|
| Frequency Range                 |         | 1             |           | 26.5      | GHz    |
| Nominal Coupling                |         | 28.5          | 30        | 31.5      | dB     |
| Frequency Sensitivity           |         |               | $\pm 0.7$ | $\pm 1.0$ | dB     |
| Directivity                     |         | 10            | 12        |           | dB     |
| Insertion Loss (Excl. Coupling) |         |               |           | 2.0       | dB     |
| Insertion Loss (true)           |         |               | 1.3       | 2.0       | dB     |
| VSWR Primary                    |         |               | 1.3       | 1.7       | : 1    |
| VSWR Secondary                  |         |               | 1.3       | 1.7       | : 1    |
| Power Rating                    | Average | 30            |           |           | W      |
|                                 | Peak    | 500           |           |           | W      |
| Impedance                       |         | 50            |           |           | Ohms   |
| Weight                          |         | /             |           |           | ounces |
| Input / Output Connectors       |         | 2.92mm-Female |           |           |        |
| Material                        |         | Aluminum      |           |           |        |
| Finish                          |         | Blue Paint    |           |           |        |

**Coaxial 30W 30dB Dual Directional Coupler 1 – 26.5GHz**

**Environmental Specifications and Test Standards**

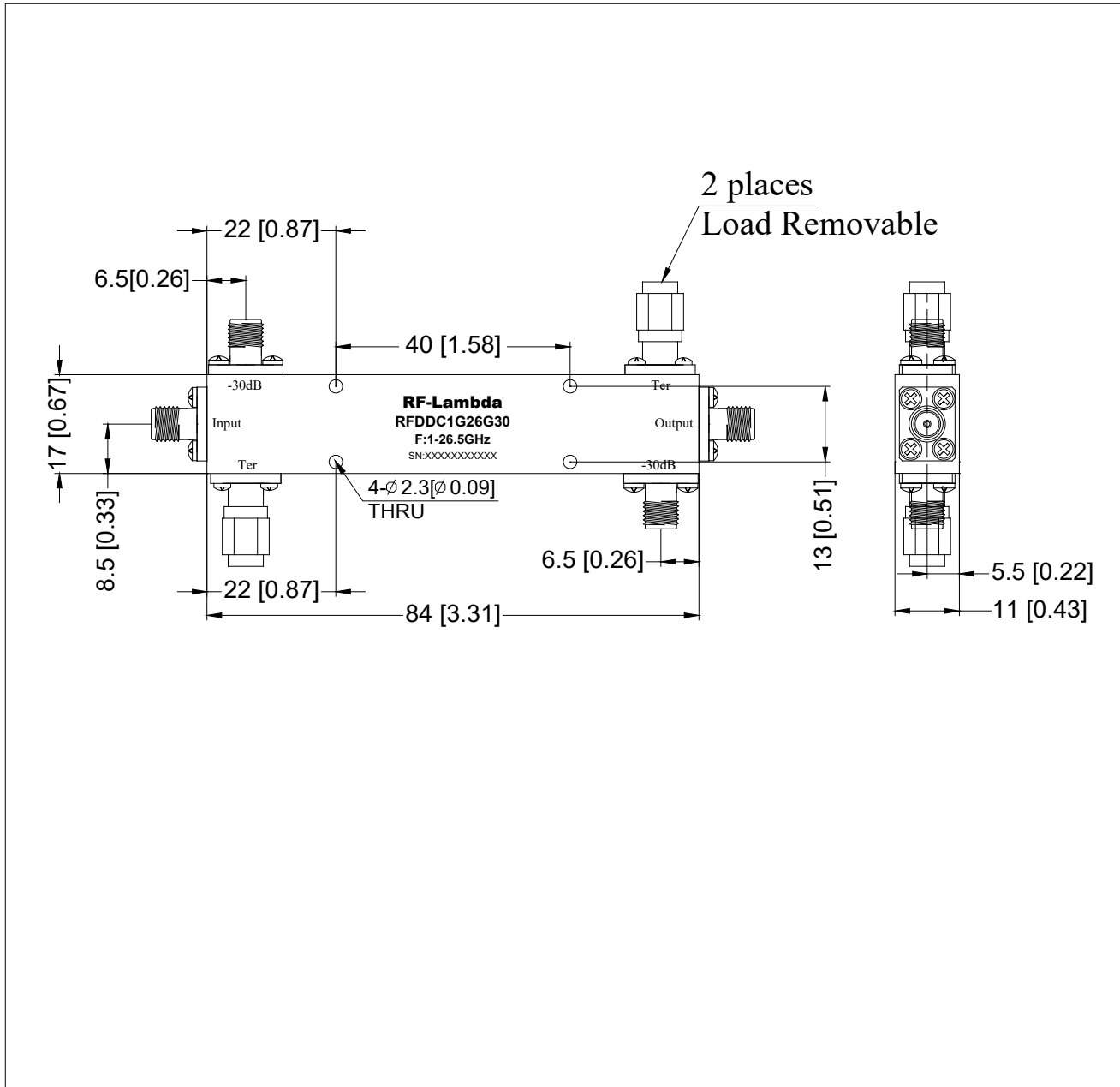
| Parameter                      | Description                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Temperature        | -40°C~+85°C<br>(Case Temperature)                                                                                                                                                                               |
| Storage Temperature            | -50°C~+105°C                                                                                                                                                                                                    |
| Thermal Shock                  | -40°C → +85°C<br>(5 Cycles / 10 hours)                                                                                                                                                                          |
| Random Vibration               | MIL-STD-202G<br>Table 214-I, Test Condition Letter C<br>1.5 Hours Per Axis                                                                                                                                      |
| High Temperature Burn In       | Temperature +85°C for 72 Hours                                                                                                                                                                                  |
| Shock                          | 1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s<br>2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s<br>3. Total 18 times (6 directions, 3 repetitions per direction). |
| Altitude                       | Standard: 30,000 Ft (Epoxy Sealed Controlled Environment)<br>Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)                                                                                             |
| Hermetically Sealed (Optional) | MIL-STD-883 (For Hermetically Sealed Units)                                                                                                                                                                     |

### Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances  $\pm 0.5$  [0.02]

Mounting Hole Tolerances  $\pm 0.2$  [0.008]



**Coaxial 30W 30dB Dual Directional Coupler 1 – 26.5GHz**

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