

## WR340 Waveguide to Coaxial Adapter 2.2GHz-3.3GHz



### Product Description

RFWA340B9CFAL is a waveguide to coaxial adapter with a frequency range of 2.2 to 3.3GHz.

The operating temperature of this product is from -40 to +85°C

### Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration

### Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

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

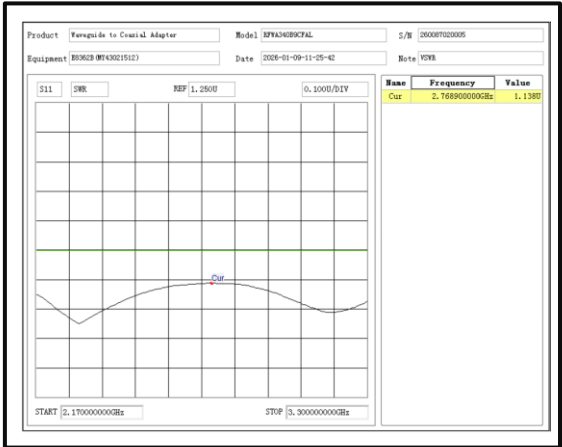
| Parameter            | Min | Typ      | Max  | Units |
|----------------------|-----|----------|------|-------|
| Frequency Range      | 2.2 |          | 3.3  | GHz   |
| Insertion Loss       |     |          | 0.2  | dB    |
| VSWR                 |     |          | 1.25 | :1    |
| Power Handling (Max) |     | 100      |      | W     |
| Waveguide Type       |     | WR340    |      |       |
| Flange Type          |     | CPRF     |      |       |
| Flange Holes         |     | Through  |      |       |
| Weight               |     | 1.2 Max. |      | lbs.  |

## Environmental Specifications and Test Standards

| Parameter                         | Description                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Temperature           | -40°C to +85°C<br>(Case Temperature)                                                                                                                                                                            |
| Storage Temperature               | -50°C to +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                                                                                                                                      |
| 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<br>(Optional) | MIL-STD-883 (For Hermetically Sealed Units)                                                                                                                                                                     |

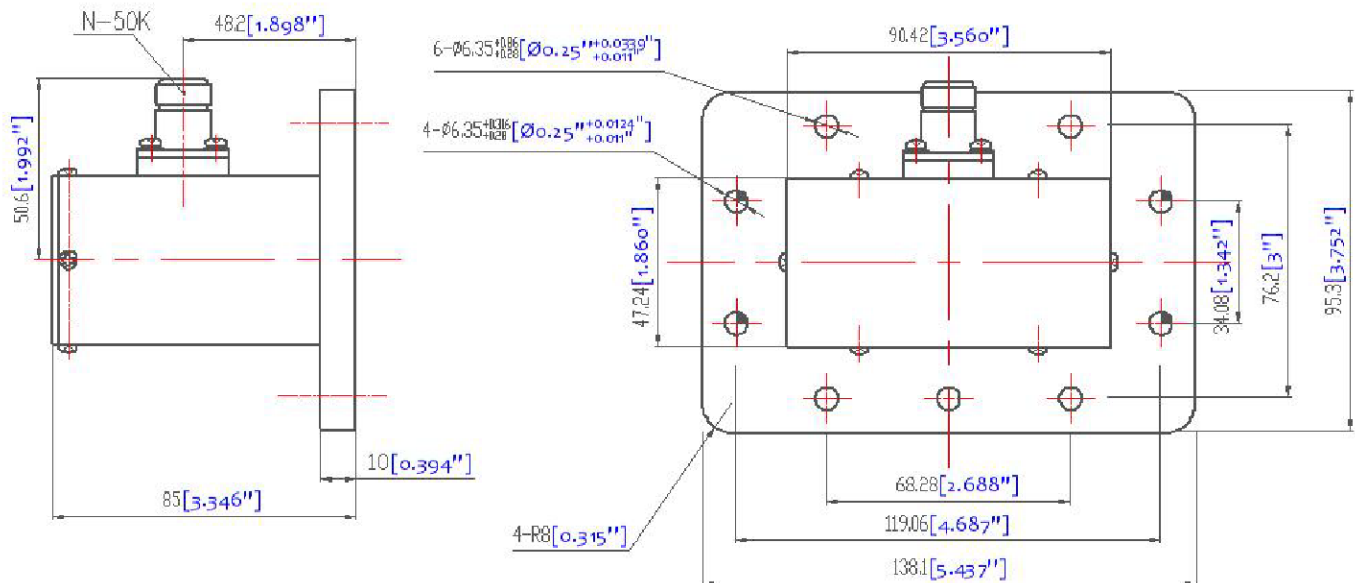
Typical Performance Plots

VSWR



Note: In Insertion Loss (IL) test setup, two Waveguide to Coaxial Adapters are connected together. The test value is the total IL of the two parts. Actually the IL test result of single Waveguide to Coaxial Adaptor is the total value divided by two.

**Outline Drawing**



**Notes:**

1. Package Material: Aluminum
2. All dimensions are in millimeters [inches].
3. The tolerance noted is just for reference.

**Additional Information**

| Documentation                   | Webpage                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ESD Policy                      | <a href="https://rflambda.com/pdf/rflambda_esd_control.pdf">https://rflambda.com/pdf/rflambda_esd_control.pdf</a>                                             |
| Connector Torque Specifications | <a href="https://www.rflambda.com/pdf/Torque_Specifications.pdf">https://www.rflambda.com/pdf/Torque_Specifications.pdf</a>                                   |
| Random Vibration Test Standard  | <a href="https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf">https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf</a> |

**Ordering Information**

| Part Number   | Modification | Description                                |
|---------------|--------------|--------------------------------------------|
| RFWA340B9CFAL | WR340        | 2.2GHz-3.3GHz Waveguide to Coaxial Adapter |

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