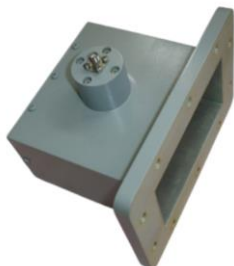


## WR430 Waveguide to Coaxial Adapter 1.72GHz-2.61GHz



### Product Description

RFWA430A9CGAL is a waveguide to coaxial adapter with a frequency range of 1.72 to 2.61GHz.

The maximum insertion loss is 0.2dB.

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

### Features

- High power handling up to 50W
- Wide band operation
- Low Insertion Loss
- 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

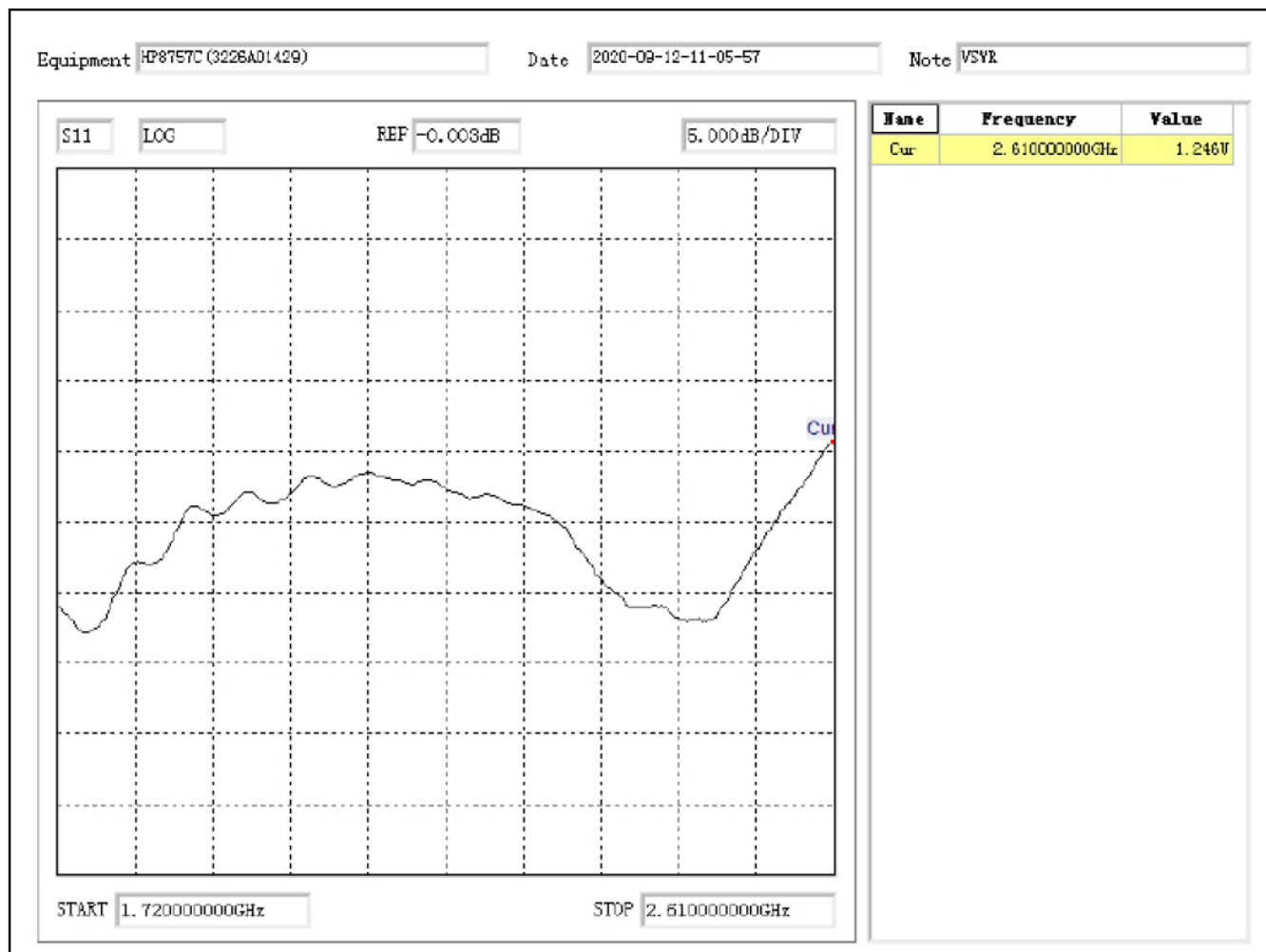
### Electrical Specifications( $T_A=25^{\circ}\text{C}$ )

| Parameter       | Min  | Typ       | Max  | Units |
|-----------------|------|-----------|------|-------|
| Frequency Range | 1.72 |           | 2.61 | GHz   |
| Insertion Loss  |      |           | 0.2  | dB    |
| VSWR            |      |           | 1.25 | :1    |
| Power handling  |      | 50        |      | W     |
| Waveguide Type  |      | WR430     |      |       |
| Flange Type     |      | CPRG      |      |       |
| Weight          |      | 1.52 Max. |      | lbs   |

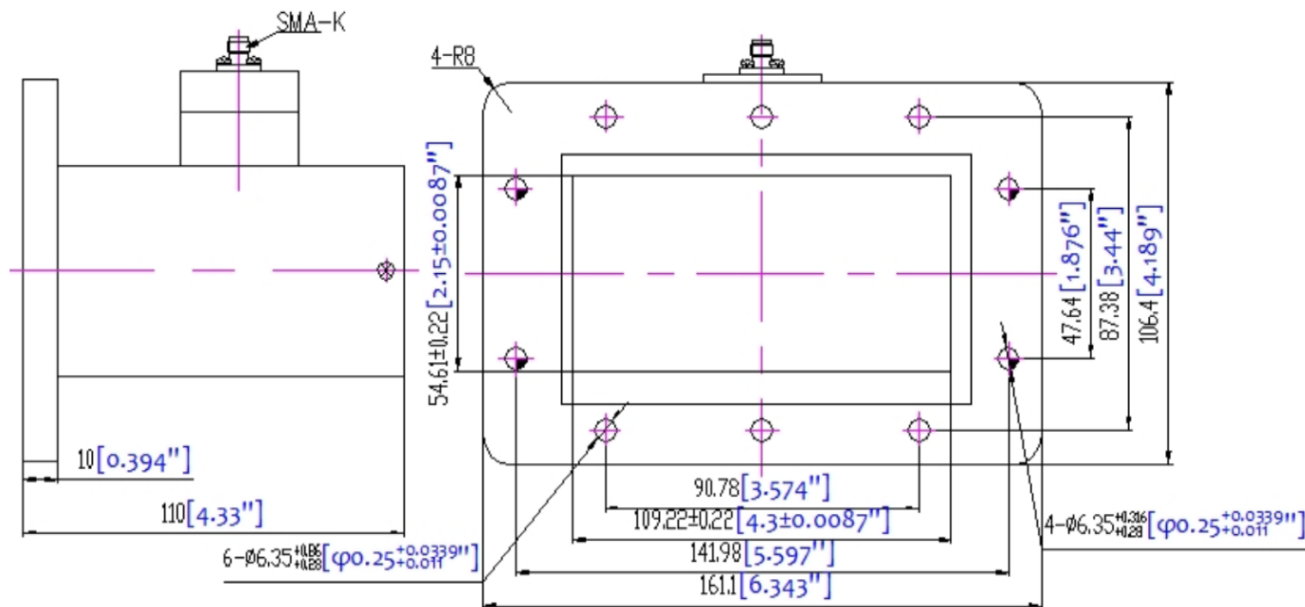
## Environmental Specifications and Test Standards

| 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



Outline Drawing



Notes:

1. All dimensions are in millimeters [inches].
2. 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                                  |
|---------------|--------------|----------------------------------------------|
| RFWA430A9CGAL | WR430        | 1.72GHz-2.61GHz Waveguide to Coaxial Adapter |

Important Notice

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