

WR90 Waveguide to Coaxial Adapter 8.2GHz-12.4GHz



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration

Product Description

RFWA90B9COAL is a waveguide to coaxial adapter with a frequency range of 8.2 to 12.4GHz.

The operating temperature of this product is from -45 to +85°C

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

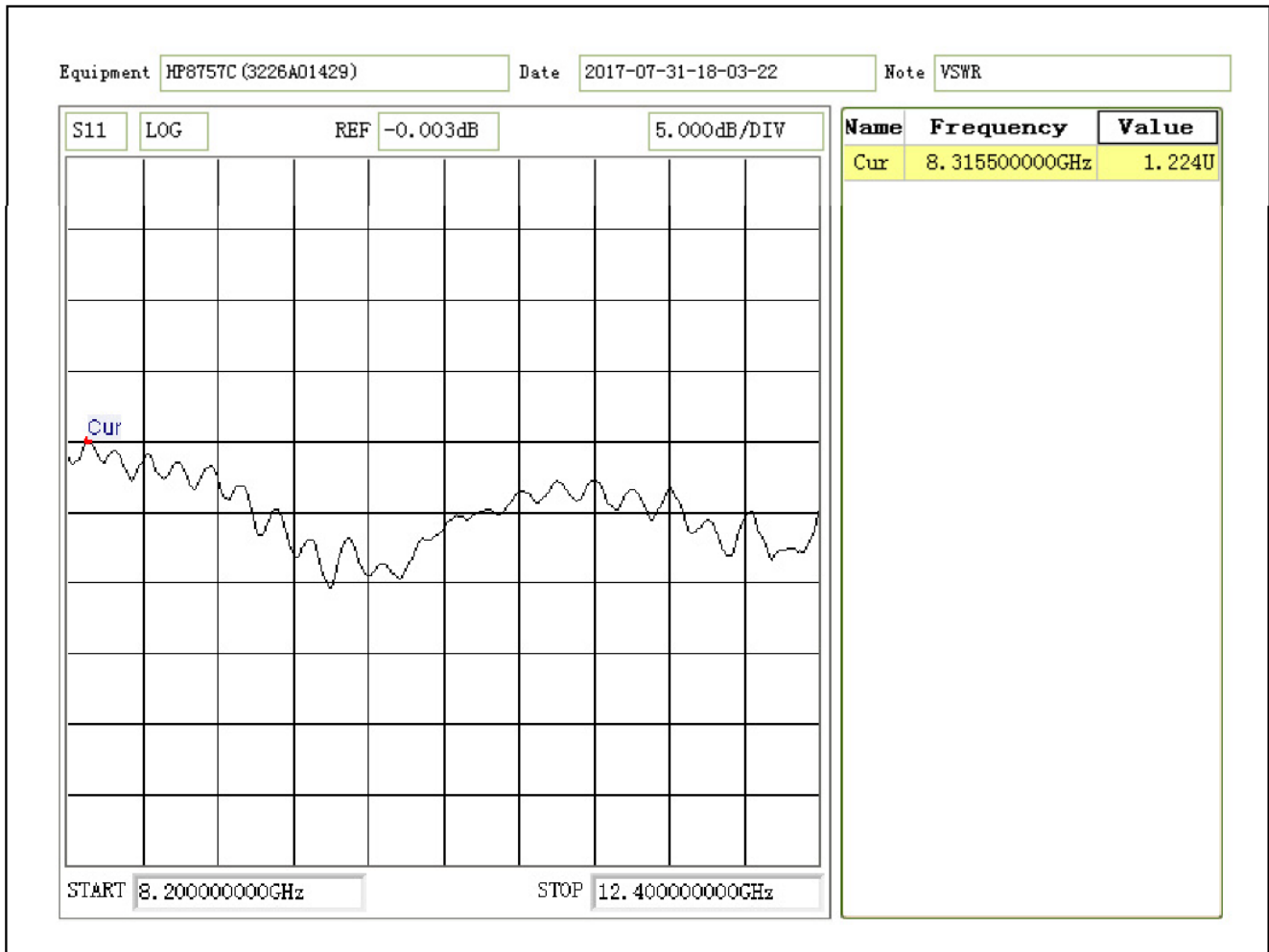
Electrical Specifications(T_A=25°C)

Parameter	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.25	:1
Power Handling (Max)		50		W
Waveguide Type		WR90		
Flange Type		COVER		

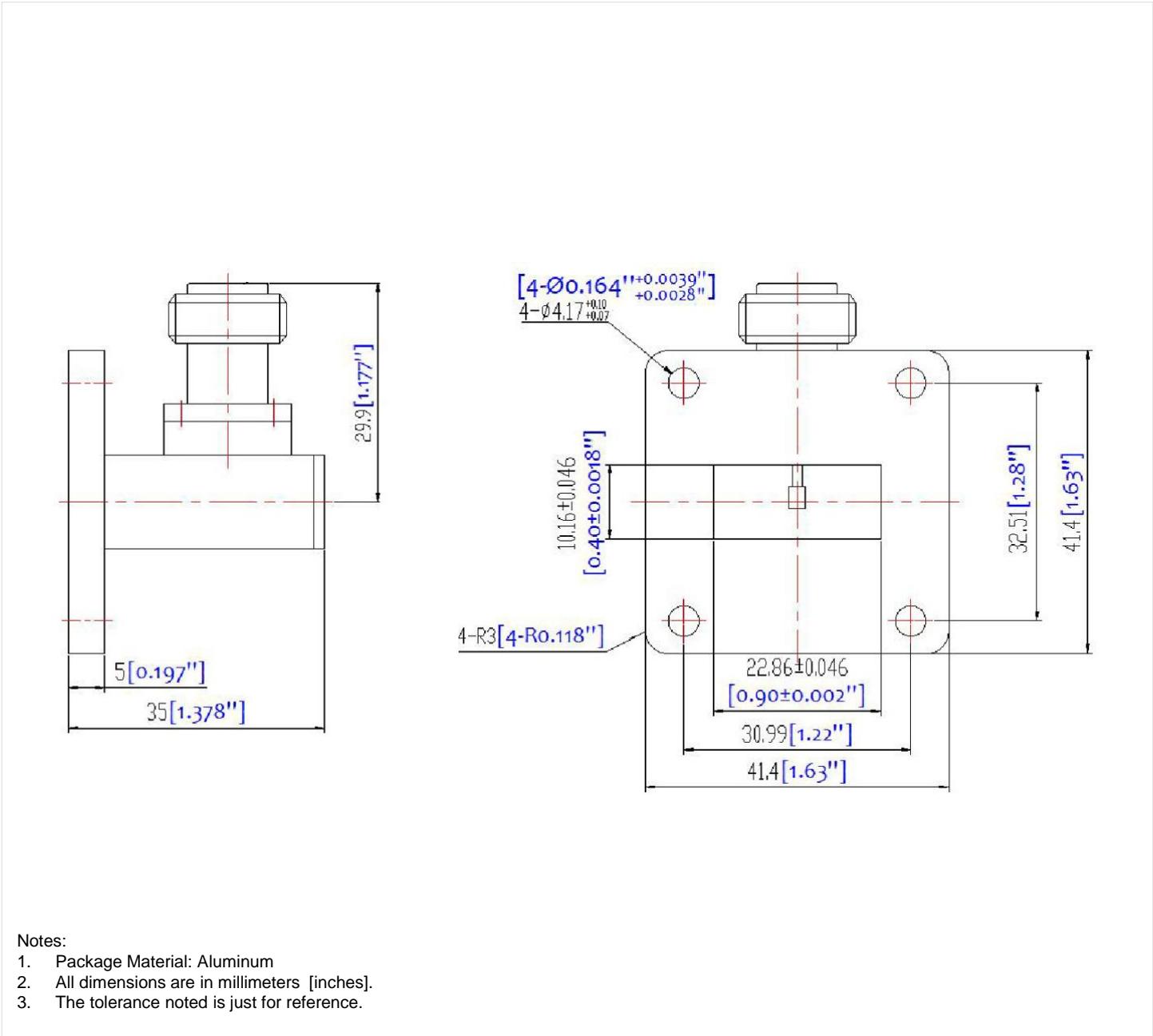
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-45°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +125°C
Thermal Shock	-45°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

Typical Performance Plots



Outline Drawing



Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFWA90B9COAL	WR90	8.2GHz-12.4GHz Waveguide to Coaxial Adapter

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