

WR112 Waveguide to Coaxial Adapter 7.05GHz-10GHz



Product Description

RFWA112A9CFAL is a waveguide to coaxial adapter with a frequency range of 7.05 to 10GHz.

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

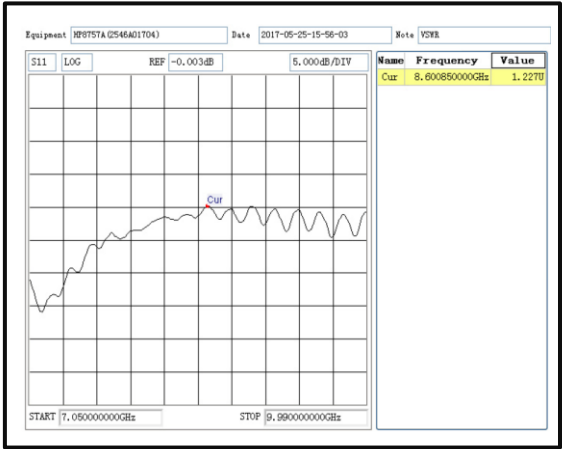
Parameter	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
Insertion Loss			0.3	dB
VSWR			1.25	:1
Average Power		50		W
Waveguide Type		WR112		
Flange Holes		Through		

Environmental Specifications and Test Standards

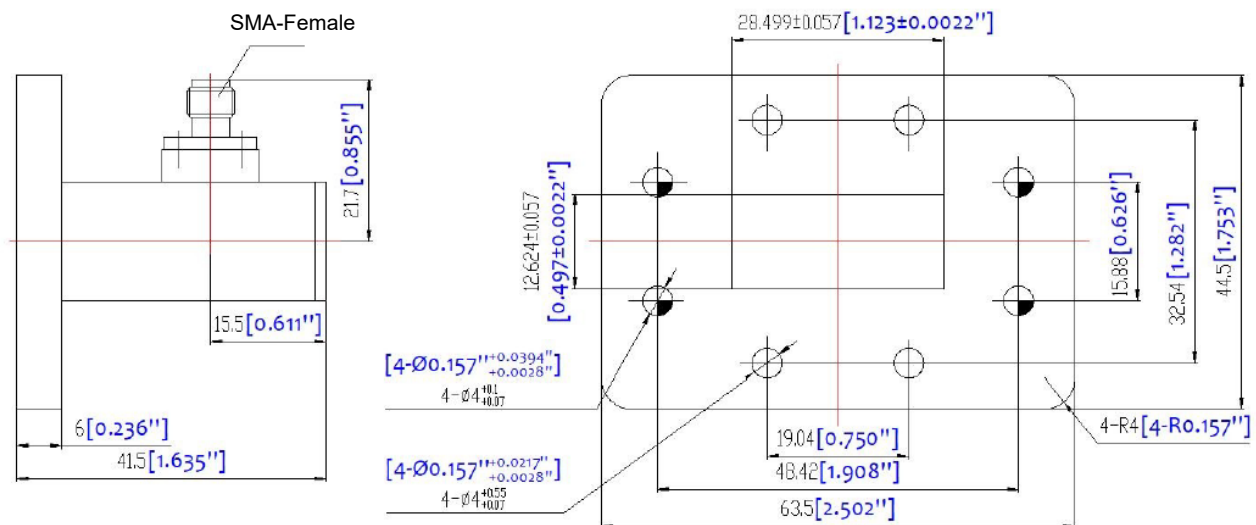
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	1. Weight >20g, 50g half sine wave for 11ms, 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

VSWR



Outline Drawing



Notes:

1. All dimensions are in millimeters [inches].
2. The tolerance noted is just for reference.

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
RFWA112A9CFAL	WR112	7.05GHz-10GHz Waveguide to Coaxial Adapter

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