

Waveguide WRD650 High Power Attenuator 6GHz–18GHz



Product Description

RFWAT650W01K40 is a waveguide WRD650 high power attenuator frequency range of 6 to 18GHz.

The attenuator's average power is 1KW. The attenuation is 40dB with an attenuation accuracy of 2dB.

The waveguide port is WRD650.

Features

- Waveguide Attenuator
- High Power

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)

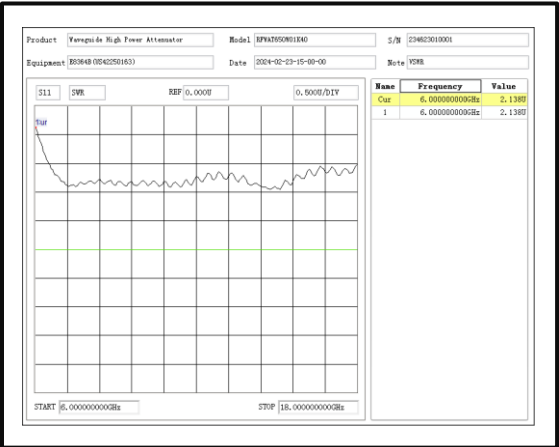
Parameter	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	6		6.5	6.5		18	GHz
VSWR Primary			1.25			1.25	: 1
VSWR Secondary			2.0			1.5	: 1
Attenuation			40				dB
Accuracy			±2				dB
Average Power			1				KW
Waveguide Port						WRD650	

Environmental Specifications and Test Standards

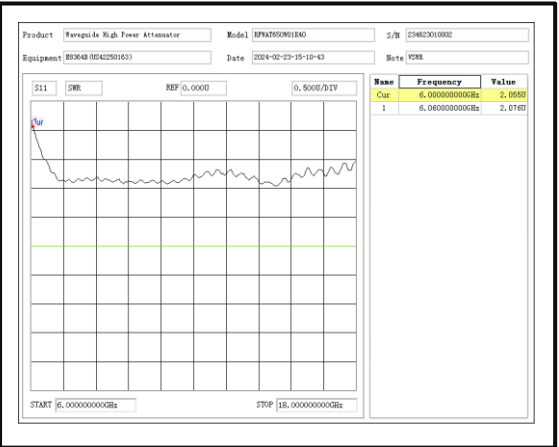
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +125°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 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

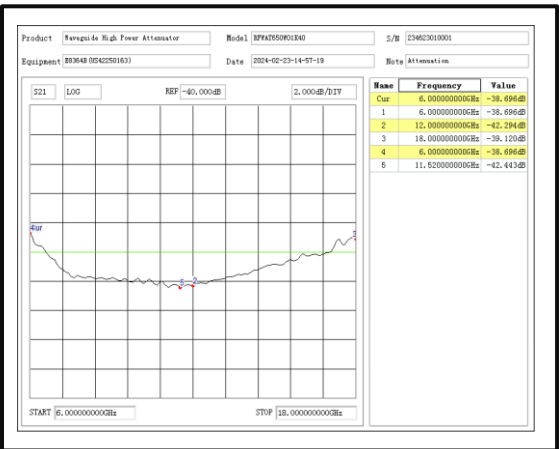
VSWR



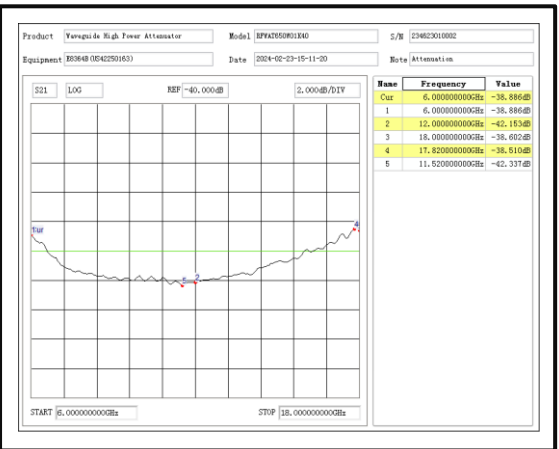
VSWR



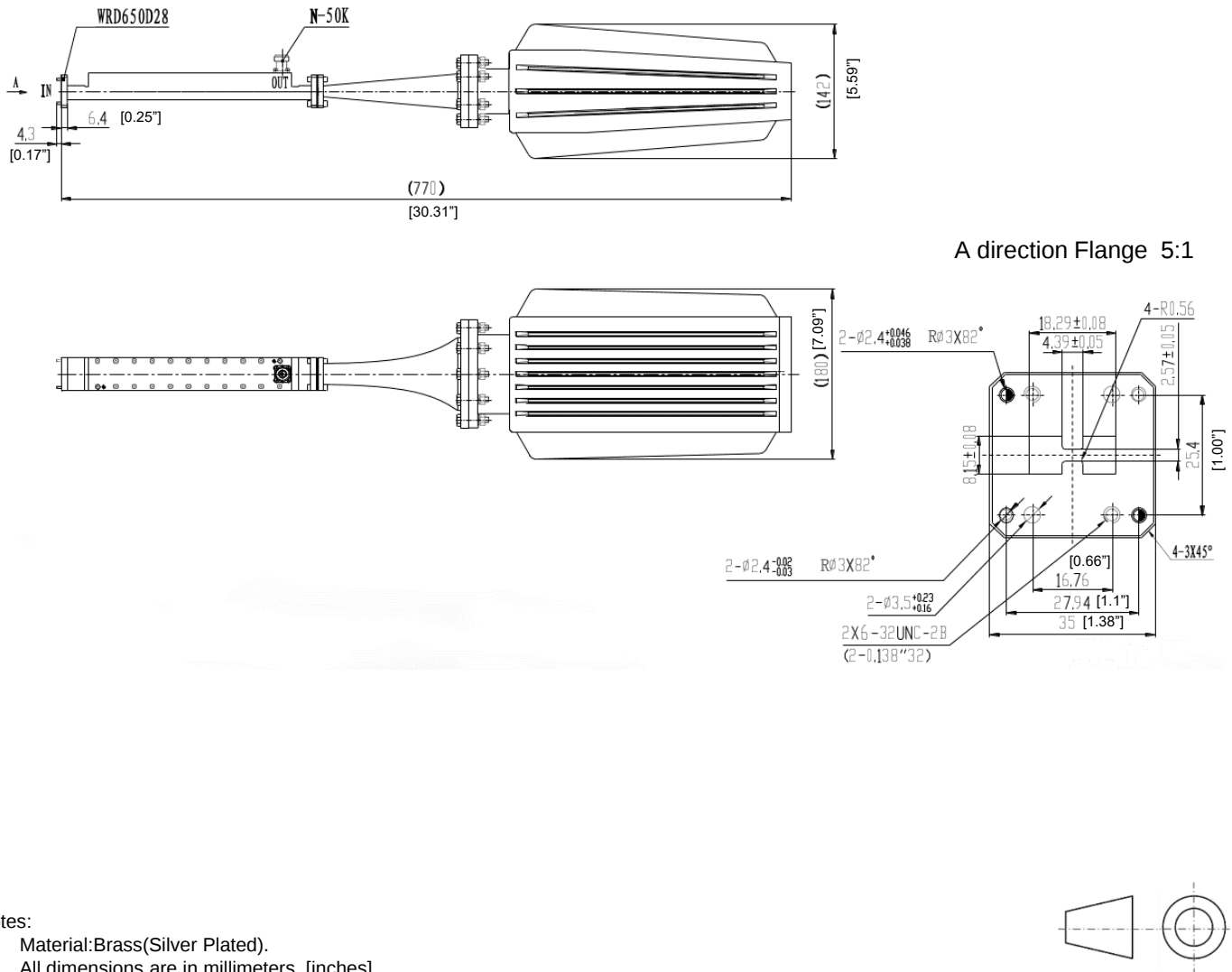
Attenuation



Attenuation



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
RFWAT650W01K40	WRD650	6GHz-18GHz Waveguide High Power Attenuator

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