

250W Waveguide WR42 Attenuator 18GHz - 26.5GHz



Note: The photo is for illustration only.
Please refer to the outline drawing.

Product Description

RFWAT42W250 is a waveguide WR42 attenuator frequency range of 18 to 26.5GHz.

The average power of the attenuator is 250W. The attenuation range is 10 to 40dB.

The waveguide port is W42.

Features

- Waveguide Attenuator

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

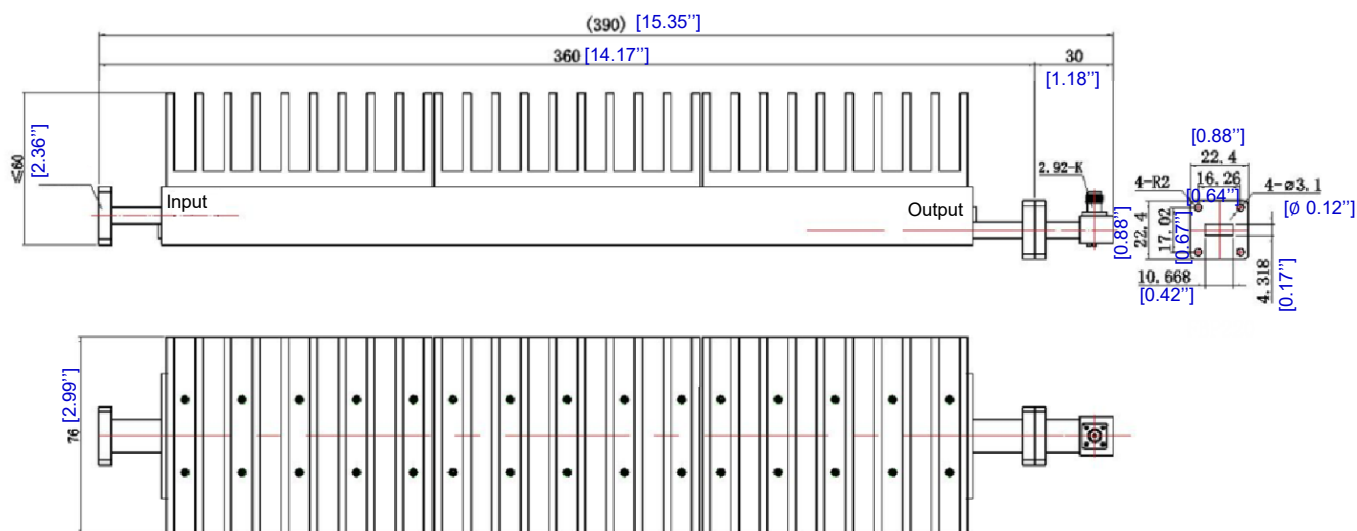
Electrical Specifications ($T_A=+25^{\circ}\text{C}$)

Parameter	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.2	: 1
Attenuation	10		40	dB
Accuracy		± 1.0		dB
Average Power (CW)			250	W
Waveguide		WR42		
Flange		UG595/U		
Connector		2.92mm-Female		

Environmental Specifications and Test Standards

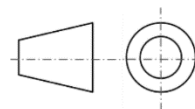
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +125°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 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)

Outline Drawing



Notes:

1. Material: Aluminum.
2. Finish: Conductive Oxidation.
3. All dimensions are in millimeters [inches].
4. Standard torque wrench must be used to secure RF connectors.



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
RFWAT42W250	WR42	18GHz-26.5GHz Waveguide Attenuator

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