

Waveguide WRD650 High Power Attenuator 6GHz - 18GHz



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

Product Description

RFWAT650W03K40 is a waveguide WRD650 high power attenuator frequency range of 6 to 18GHz.

The average power of the attenuator is 3KW. The attenuation is 40dB with an attenuation accuracy of 2dB.

The waveguide port is WRD650.

Features

- Waveguide Attenuator
- High Power Handling up to 3KW

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

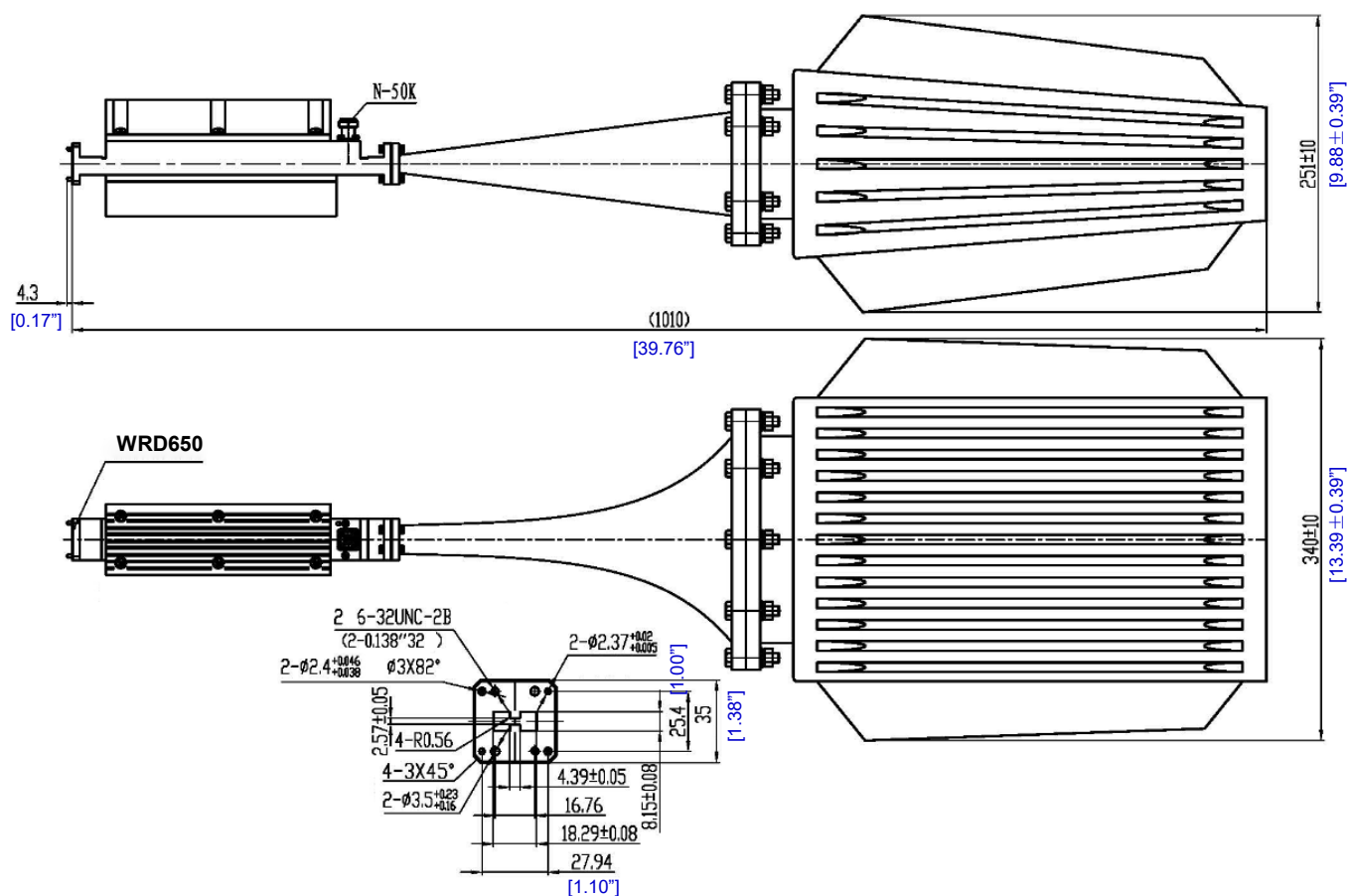
Electrical Specifications ($T_A=+25^{\circ}\text{C}$)

Parameter	Min	Typ	Max	Units
Frequency Range	6		18	GHz
VSWR Primary			1.25	: 1
VSWR Secondary			2.0	: 1
Attenuation		40		dB
Accuracy		± 2.0		dB
Average Power		3		KW
Waveguide Port		WRD650		
Connector		N-Female		

Environmental Specifications and Test Standards

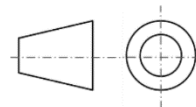
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 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: Brass (Silver Plated).
2. All dimensions are in millimeters [inches].
3. The tolerance noted is just for reference.



Additional Information

Documentation

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

Webpage

Ordering Information

Part Number	Modification	Description
RFWAT650W03K40	WRD650	6GHz-18GHz Waveguide High Power Attenuator

Important Notice

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