

WR90 Waveguide 500W High Power Termination 8.2GHz-12.4GHz



Product Description

RFWT90F is a waveguide high power termination with a frequency range of 8.2 to 12.4GHz.

The average power of this termination is 500W.

The working temperature of this product is between -30°C and +70°C.

Features

- Full band operation
- Low loss
- Low VSWR

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, TA = +25°C

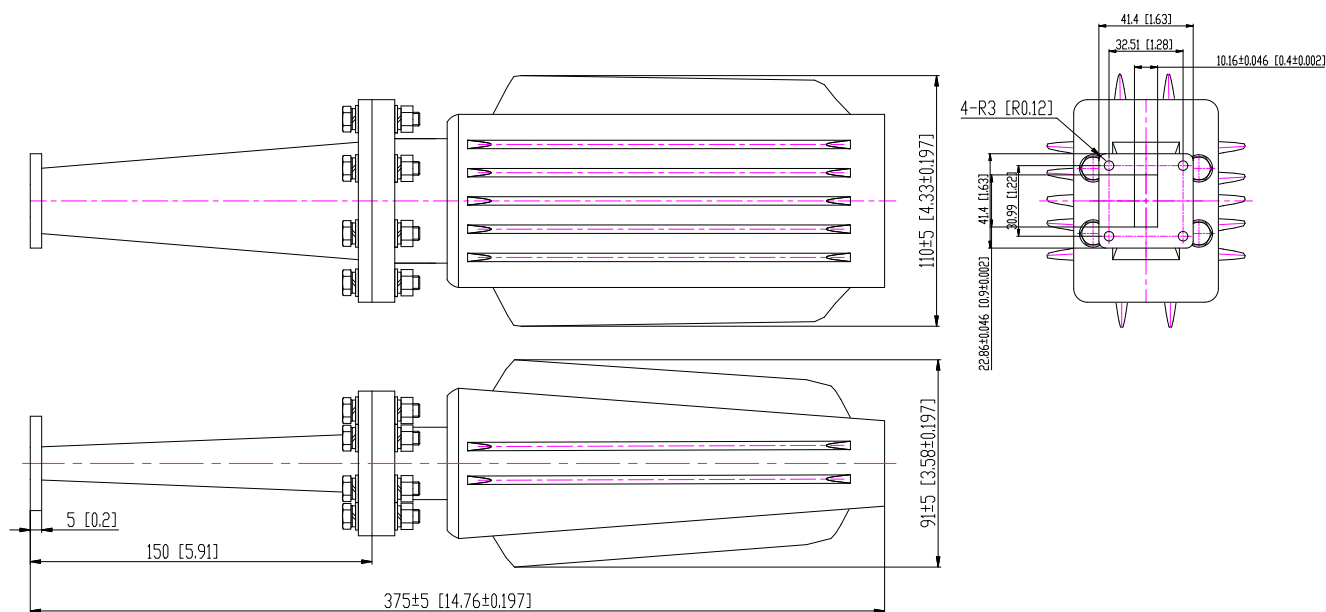
Parameter	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.25	: 1
Average Power(CW)		500		W
Peak Power		10		KW
Weight		2.1		kg
Waveguide type		WR90		
Flange type		UG135/U		
Flange Holes		Through		

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-30°C to +70°C (Case Temperature)
Storage Temperature	-50°C to +125°C
Thermal Shock	-30°C → +70°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)

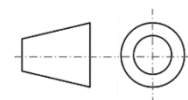
**For vibration testing details please see additional information section.

Outline Drawing



Notes:

1. Basis-material: Aluminum and Copper
2. Outside Finish: Anticorrosion grey paint.
3. All dimensions are in millimeters [inches].



Additional Information

Documentation

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
RFWT90F	WR90	8.2GHz-12.4GHz High Power Termination

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