WR34 100W High Power Waveguide Termination 21.7GHz-33GHz

Product Description

RFWT34A is a waveguide high power termination with a frequency range of 21.7 to 33GHz.

The average power of this termination is 100W.

The working temperature of this product is between - 45℃ and + 85℃.

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, TA = +25°C

Parameter	Min	Typ	Max	Units
Frequency Range	21.7		33	GHz
VSWR			1.25	: 1
Average Power (CW)		100		W
Flange Type		UBR260		
Waveguide Type		WR34		
Flange Holes		Through		

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Sales: sales@rflambda.com Technical: support@rflambda.com

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-45ºC to +85ºC (Case Temperature)
Storage Temperature	-55ºC to +125ºC
Thermal Shock	-45ºC → +85ºC (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 +85ºC 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.

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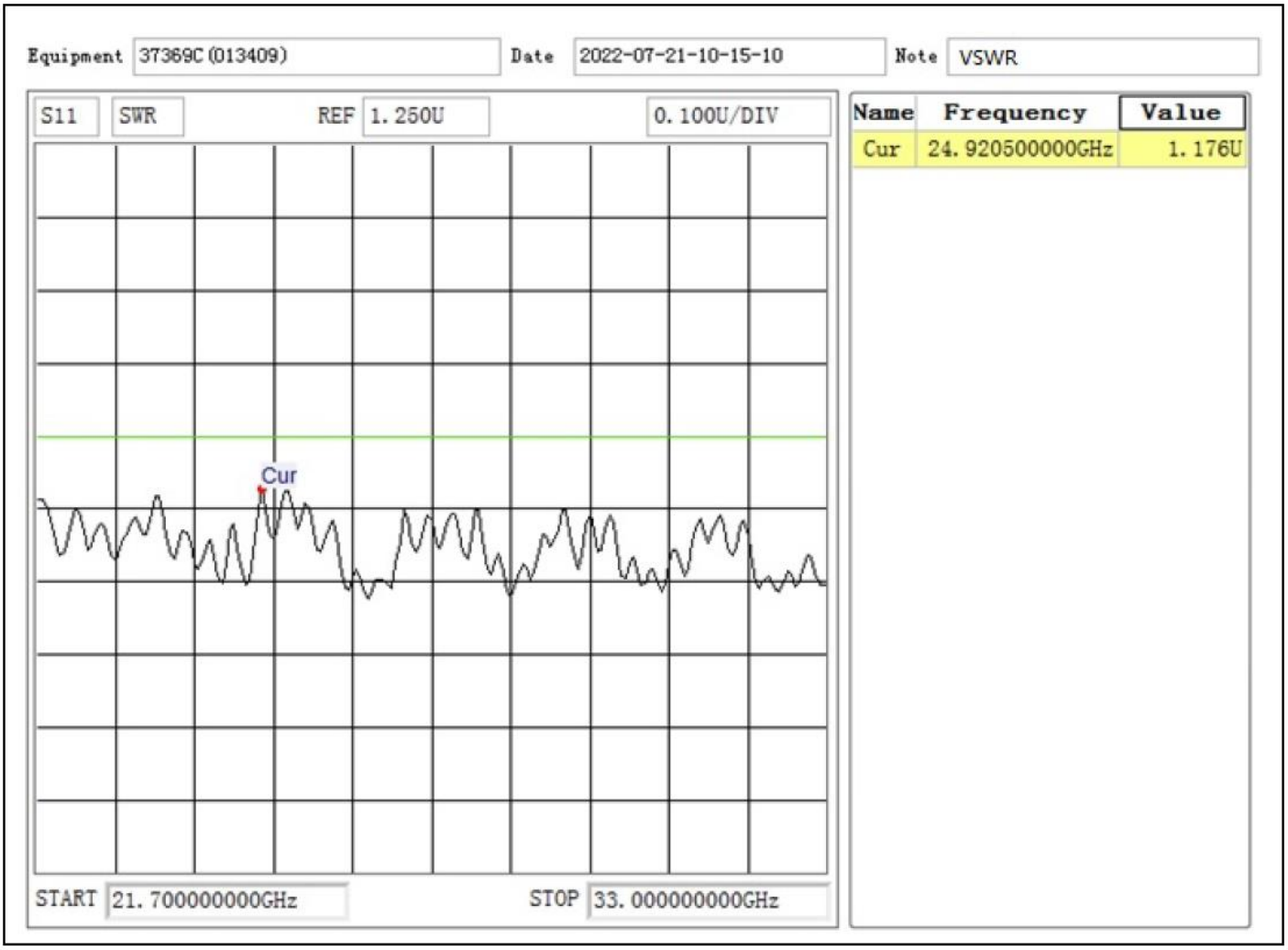
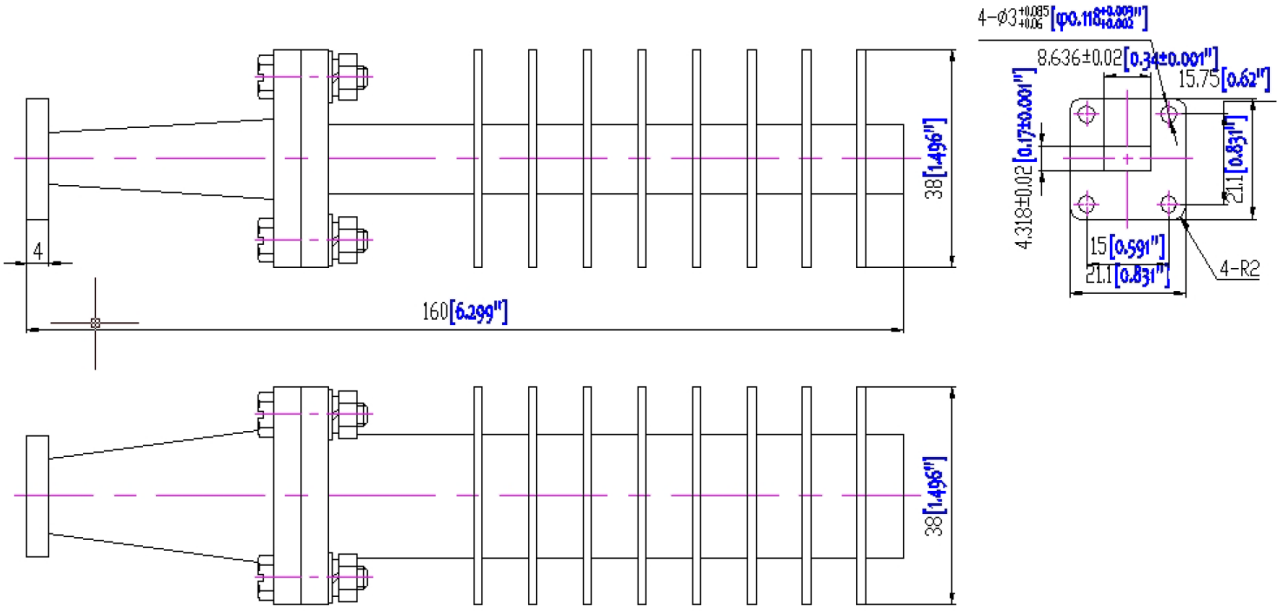
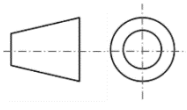
Typical Performance Plots



Outline Drawing



Notes:
1. Basis-material: Alloyed Cuprum
2. Finish: Inside: Silver Plated chromate or conversion. External: Body painted with gray / black epoxy enamel.
3. All dimensions are in millimeters [inches].
4. The tolerance noted is just for reference.



Additional Information

Documentation	Webpage
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
RFWT34A	WR34	21.7GHz-33GHz High Power Termination

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