

## WR28 Waveguide 200W High Power Termination 26.5GHz-40GHz



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

### Product Description

RFWT28G is a waveguide high power termination with a frequency range of 26.5 to 40GHz.

The average power of this termination is 200W.

The working temperature of this product is between - 40°C and + 85°C.

### Features

- Full band operation
- 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

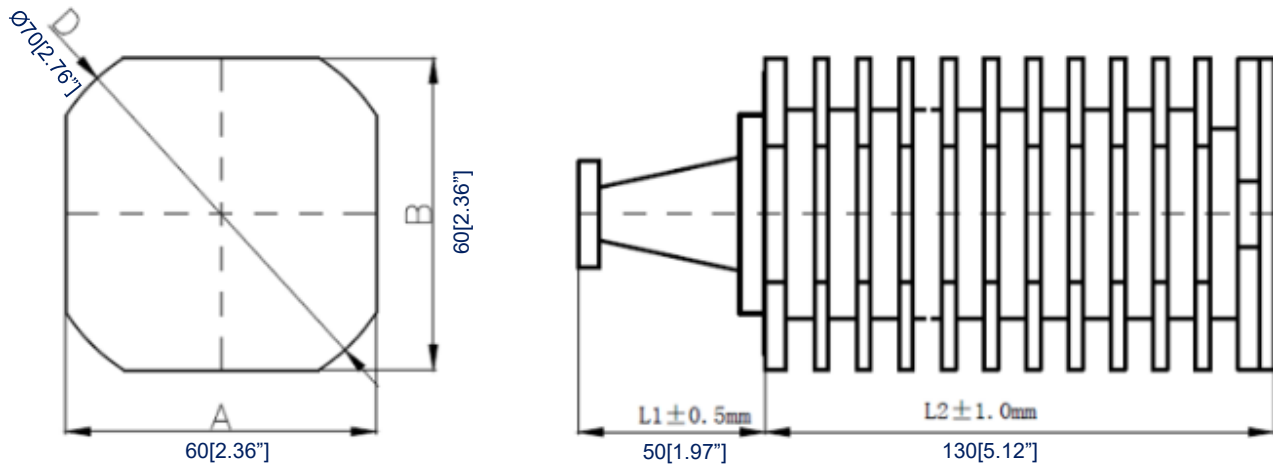
Parameter	Min	Typ	Max	Units
Frequency Range	26.5		40	GHz
VSWR		1.20	1.35	: 1
Average Power(CW)		200		W
Peak Power		1		KW
Waveguide type	Rectangular Waveguide WR28			
Flange type	CPRF, COVER			
Flange Holes	Through			

**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°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)

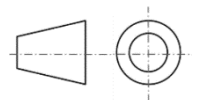
\*\*For vibration testing details please see additional information section.

**Outline Drawing**



Notes:

1. Basis-material: Alloyed Cuprum
2. Finish: Gold Plated.
3. All dimensions are in millimeters [inches].
4. Housing Tolerances  $\pm 0.2$  [0.008] unless otherwise specified.



Additional Information

Documentation	Webpage
Connector Torque Specifications	<a href="https://www.rflambda.com/pdf/Torque_Specifications.pdf">https://www.rflambda.com/pdf/Torque_Specifications.pdf</a>
Random Vibration Test Standard	<a href="https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf">https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf</a>

**Ordering Information**

Part Number	Modification	Description
RFWT28G	Standard	26.5GHz-40GHz High Power Termination

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