

WR650 Flexible Twistable Waveguide 1.12GHz-1.7GHz



Product Description

RFWF650-12Inch is a flexible twistable waveguide with a frequency range of 1.12 to 1.7GHz.

Flex waveguides allow for different placements of rigid waveguide components.

Features

- Used in applications requiring both bending and twisting of the waveguides.

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°C)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		1.12 – 1.7		GHz
Insertion Loss		0.10		dB
VSWR			1.20	:1
Max Twist			52	deg/m
Power Handling (CW)		1.5		KW
Peak Power Handling		3.0		MW
* Length		300 +/- 3%		mm
Waveguide Type		WR650		
Flange Type		CPRG, CPRF, COVER, CHOKE available		
Flange Holes		Through		

* Other custom lengths available. Please inquire.

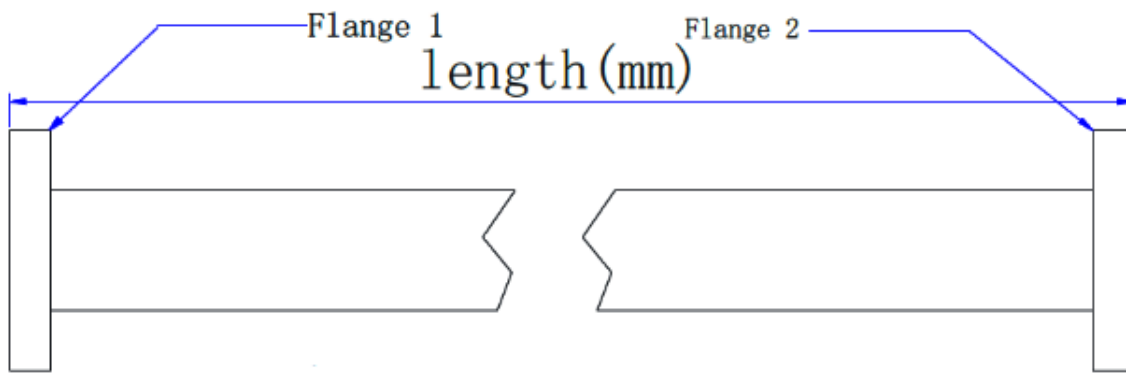
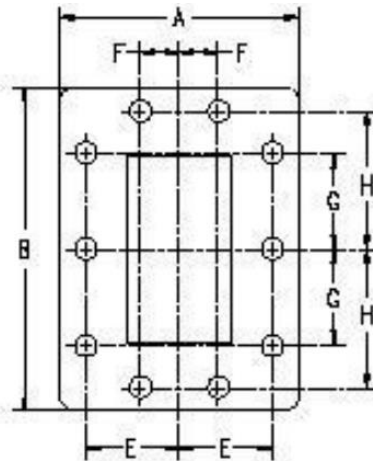
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-54°C~+85°C (Case Temperature)
Storage Temperature	-60°C~+125°C
Thermal Shock	-54°C~+85°C (5 Cycles / 10 hours)
*Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
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.

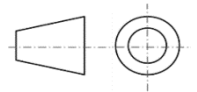
Outline Drawing

	WR650	WG6	R14
UG417A/U (without groove)			
Dimension	inches	mm	
A	5.440	138.18	
B	8.690	220.73	
E	2.310	58.69	
F	1.250	31.73	
G	2.370	60.30	
H	3.940	100.00	
Hole Diameter	0.330 ¹	8.20	



Notes:

1. Flange Material: Nickel Plated Brass
2. Internal Body Finish: Silver Plated Brass
3. Jacket Material: Vulcanized Rubber
4. All dimensions are in millimeters [inches]



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
RFWF650-12Inch	WR650	1.12GHz-1.7GHz Flexible Waveguide

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