WR137 Flexible Twistable Waveguide 5.95GHz-8.2GHz

Product Description

RFWF137-12Inch is a flexible twistable waveguide with a frequency range of 5.95 to 8.2GHz.

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=+25ºC)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		5.95 - 8.2		GHz
Insertion Loss		0.30		dB
VSWR			1.20	:1
Max Twist			203	deg/m
Power Handling (CW)		1		KW
Peak Power Handling		0.60		MW
* Length		300 +/- 3%		mm
Waveguide Type		WR137		
Flange Type		CPRG, CPRF, COVER, CHOKE available		
Flange Holes		Through		

* Other custom lengths available. Please inquire.

RF-LAMBDA USA LLC: www.rflambda.com
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Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-54ºC~+85ºC (Case Temperature)
Storage Temperature	-60ºC~+125ºC
Thermal Shock	-54ºC~+85ºC (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.

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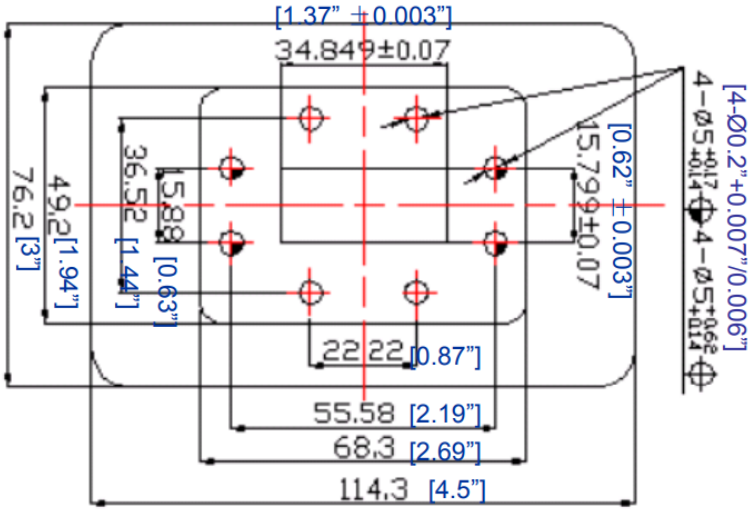
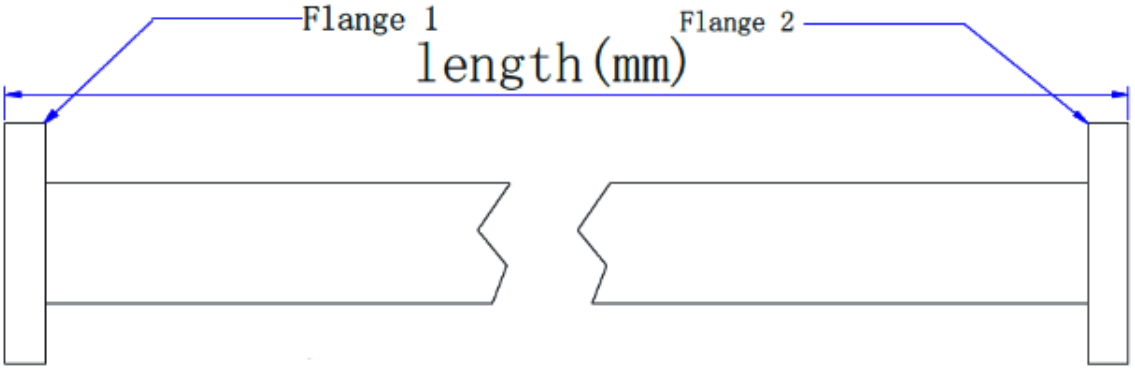
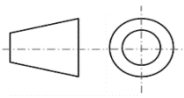
Outline Drawing





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
RFWF137-12Inch	WR137	5.95GHz-8.2GHz Flexible Waveguide

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