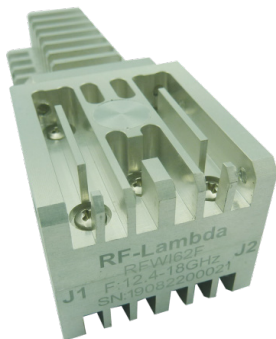


WR62 Waveguide Isolator 12.4GHz-18GHz



Product Description

RFWI62F is a WR62 waveguide isolator with a frequency range of 12.4 to 18GHz.

The isolator has a typical isolation of 21dB. The maximum insertion loss is 0.25dB.

The isolator interface is WR62.

Features

- High power handling up to 100W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- High peak to average handling capability
- All specifications can be modified upon request

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		12.4-18		GHz
Insertion Loss		0.25	0.30	dB
Isolation	20	21		dB
VSWR		1.15	1.20	: 1
Forward Power (CW)			100	W
Reverse Power (CW)			10	W
Rotation		Clockwise		
Input / Output Connectors		COVER flat 4 holes		
Interface		WR62		
Flange Type		UG419/U		
Weight		0.35 Max.		lbs

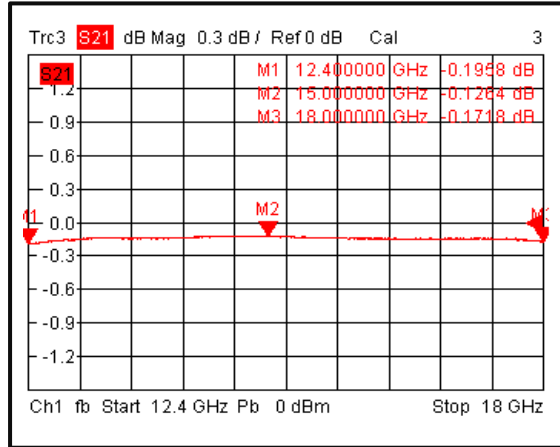
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20°C to +70°C (Case Temperature)
Storage Temperature	-40°C to +85°C
Thermal Shock	-20°C → +70°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)

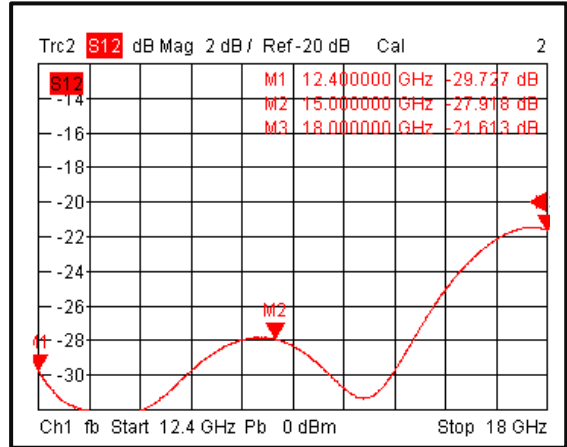
**For vibration testing details please see additional information section.

Typical Performance Plots

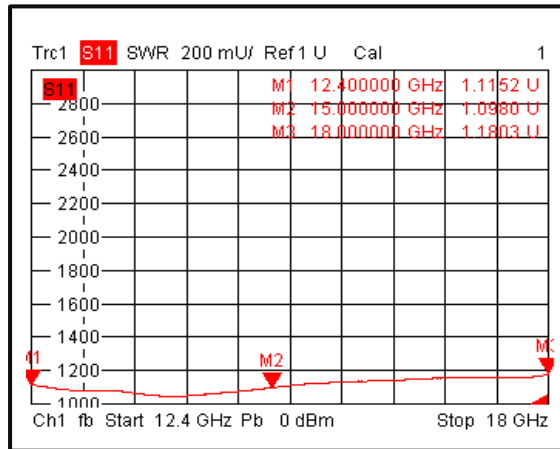
Insertion Loss



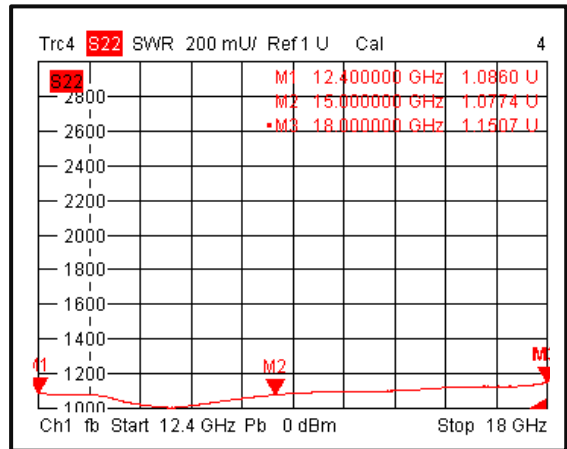
Isolation



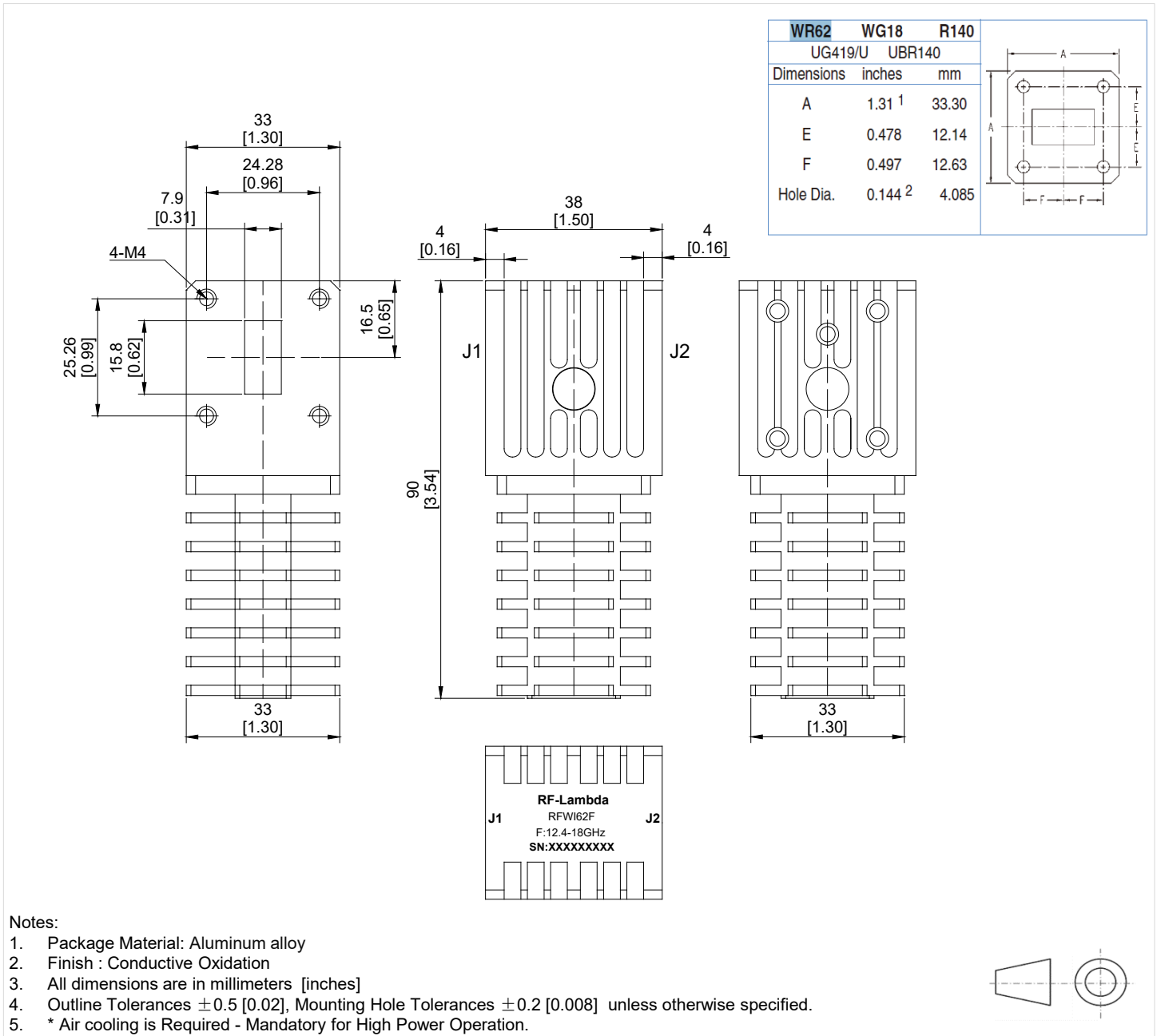
VSWR 1



VSWR2



Outline Drawing



Additional Information

Documentation	Webpage
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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
RFWI62F	WR62	12.4-18GHz Waveguide Isolator

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