

Ultra Wide Band WR34 Waveguide Isolator 22-33GHz



Features

- High power handling capability up to 25W
- Wide band operation
- High isolation within operational band
- Low Insertion loss

Typical Applications

- Aerospace and Military Applications
- Wireless Infrastructure
- Test and Measurement

Electrical Specifications, $T_A=25\text{ }^{\circ}\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	22-33			GHz
Insertion Loss		0.45	0.50	dB
Isolation	18	19		dB
VSWR		1.25	1.30	:1
Forward Power (CW)			25	W
Reverse Power (CW)			25	W
Rotation	Clockwise			
Flange Type	UG1530			
Finishing	Silver Plated			
Case Material	Aluminum Alloy			
Weight	80			g
Impedance	50			Ω

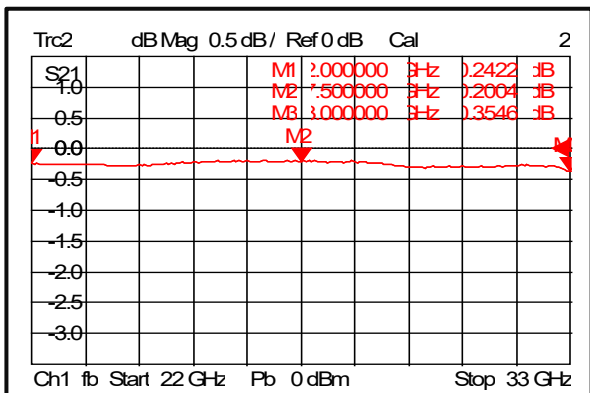
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Environmental Specifications and Test Standards

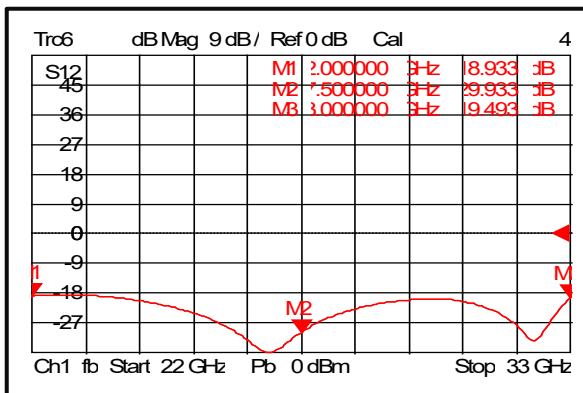
Parameter	Description
Operational Temperature	-25°C~+60°C (Case Temperature)
Storage Temperature	-45°C~+85°C
Thermal Shock	-25°C~+60°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	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)

Typical Performance Plots

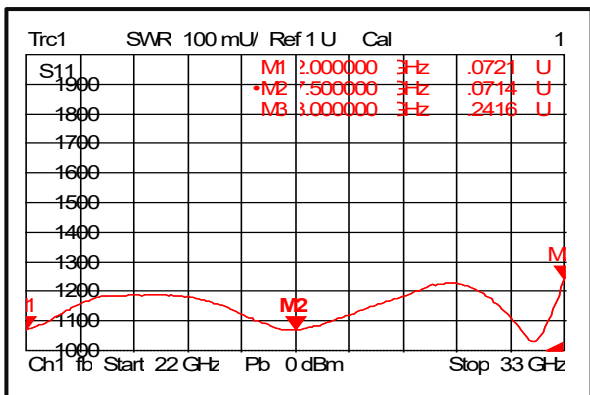
Insertion Loss



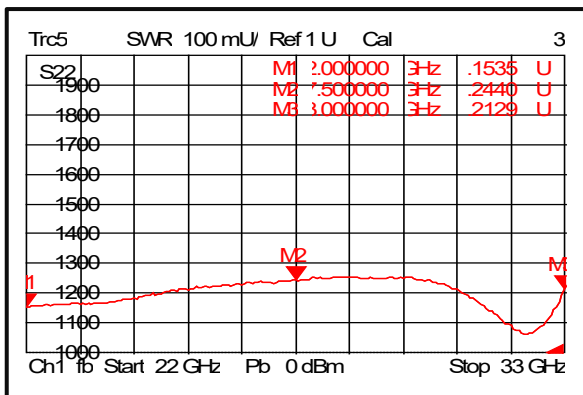
Isolation



VSWR1



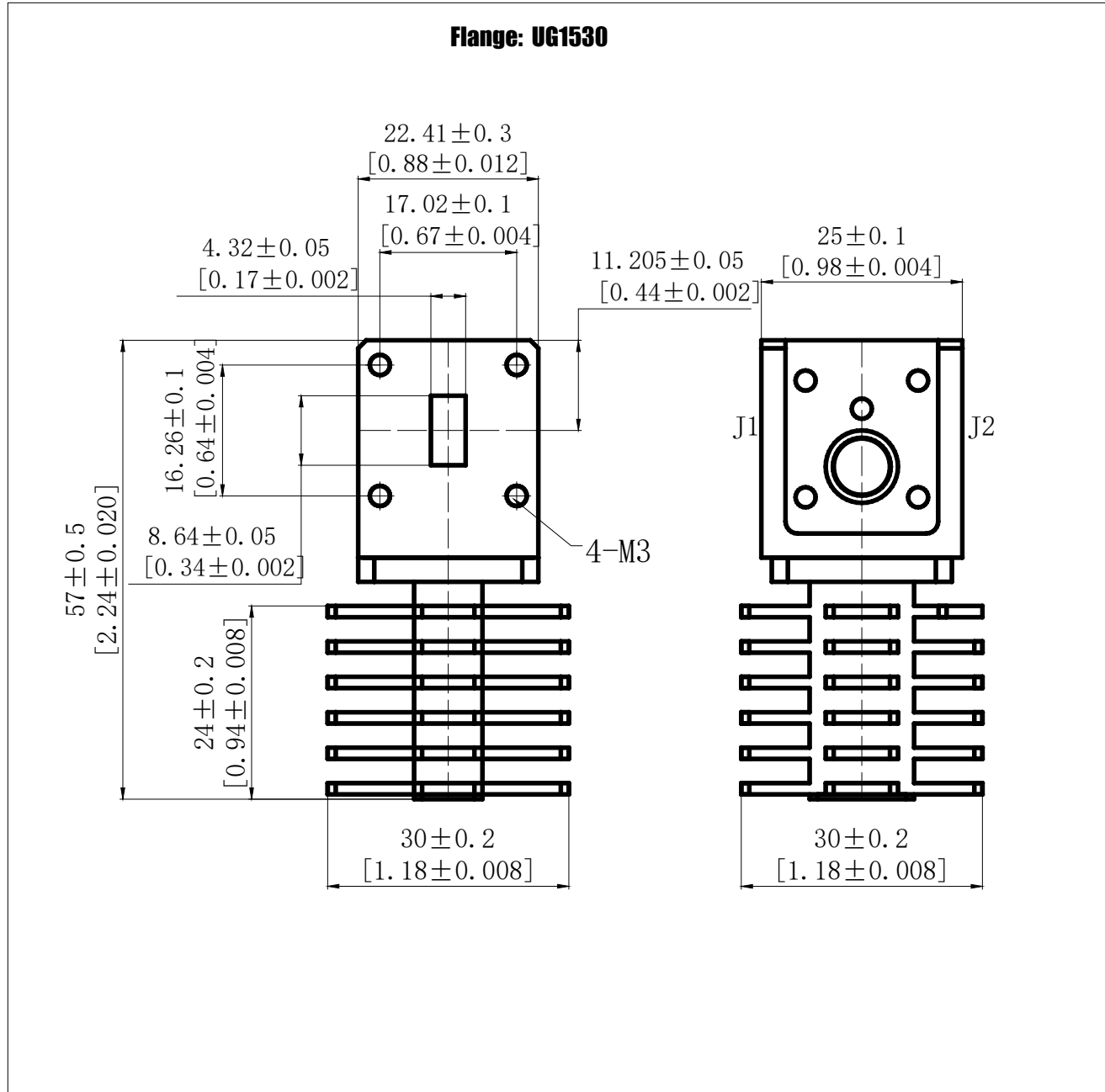
VSWR2



Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.25 [0.01]



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