Ultra Wide Band WR34 Waveguide Circulator 22 – 33GHz

Features

- High power handling up to 25W
- High isolation within operational band
- Low Insertion Loss

Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless Infrastructure

Electrical Specifications, T_A=25 ℃

Parameter	Min.	Typ.	Max.	Units
Frequency Range	22-33			GHz
Insertion Loss		0.40	0.50	dB
Isolation (Note 1)	18	19		dB
VSWR		1.25	1.30	:1
Forward Power (CW)			25	W
Rotation	Clockwise			
Flange Type	UBR260			
Finish	Silver plated			
Case Material	Aluminum Alloy			
Weight	1.06			ounces
Impedance	50			Ω

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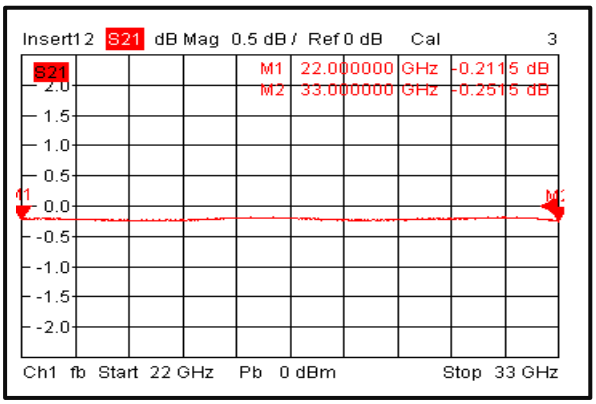
Environmental Specifications and Test Standards

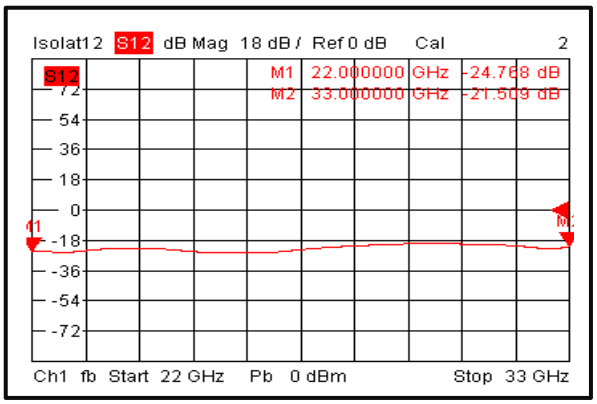
Parameter	Description
Operational Temperature	-20℃~+60℃ (Case Temperature)
Storage Temperature	-45℃~+85℃
Thermal Shock	-20℃~+60℃ (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85℃ for 72 Hours
Shock	1. 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

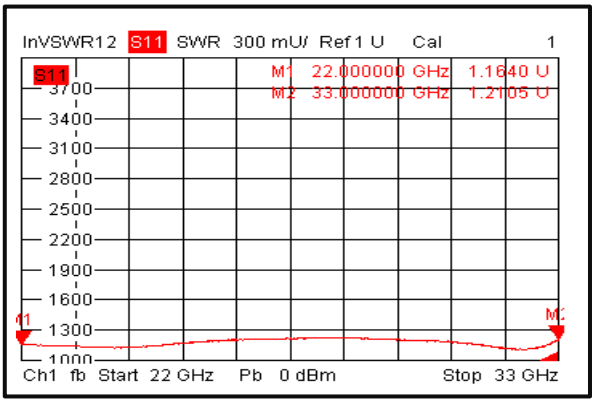
Insertion Loss



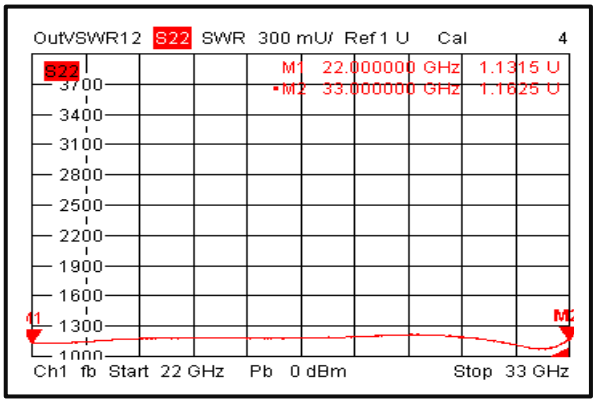
Isolation



VSWR 1



VSWR2



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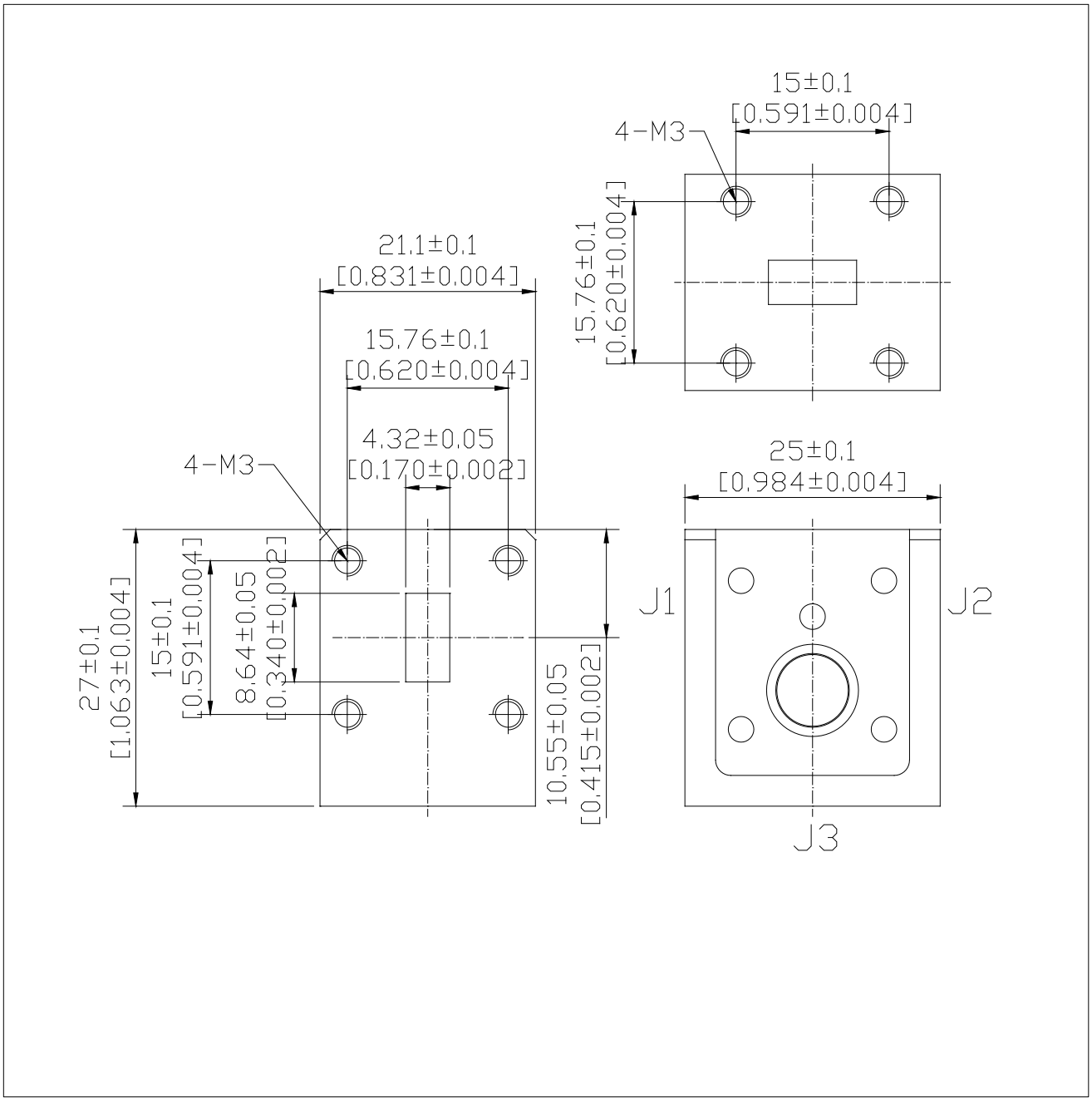
Outline Drawing:

All Dimensions in mm [inches]
Tolerance ±0.25 [0.01]



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