WR28 Waveguide Isolator
27.5 - 30.75 GHz

Note: Photo is for illustration purposes only.
Please refer to the outline drawing.

Features

- High power handling capability up to 15W
- Wide band operation
- High isolation
- Low Insertion loss

Typical Applications

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

Electrical Specifications, T_A=25 ℃

Parameter	Min	Typ.	Max	Units
Frequency Range	27.5 - 30.75			GHz
Insertion Loss			0.4	dB
Reverse Isolation (Note 1)	19			dB
VSWR			1.25	:1
Forward Power (CW)			15	W
Reverse Power (CW)			2	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Interface	WR-28			
Finish	Conductive Oxide			
Flange Type	UG599/U			
Case Material	Aluminum Alloy			

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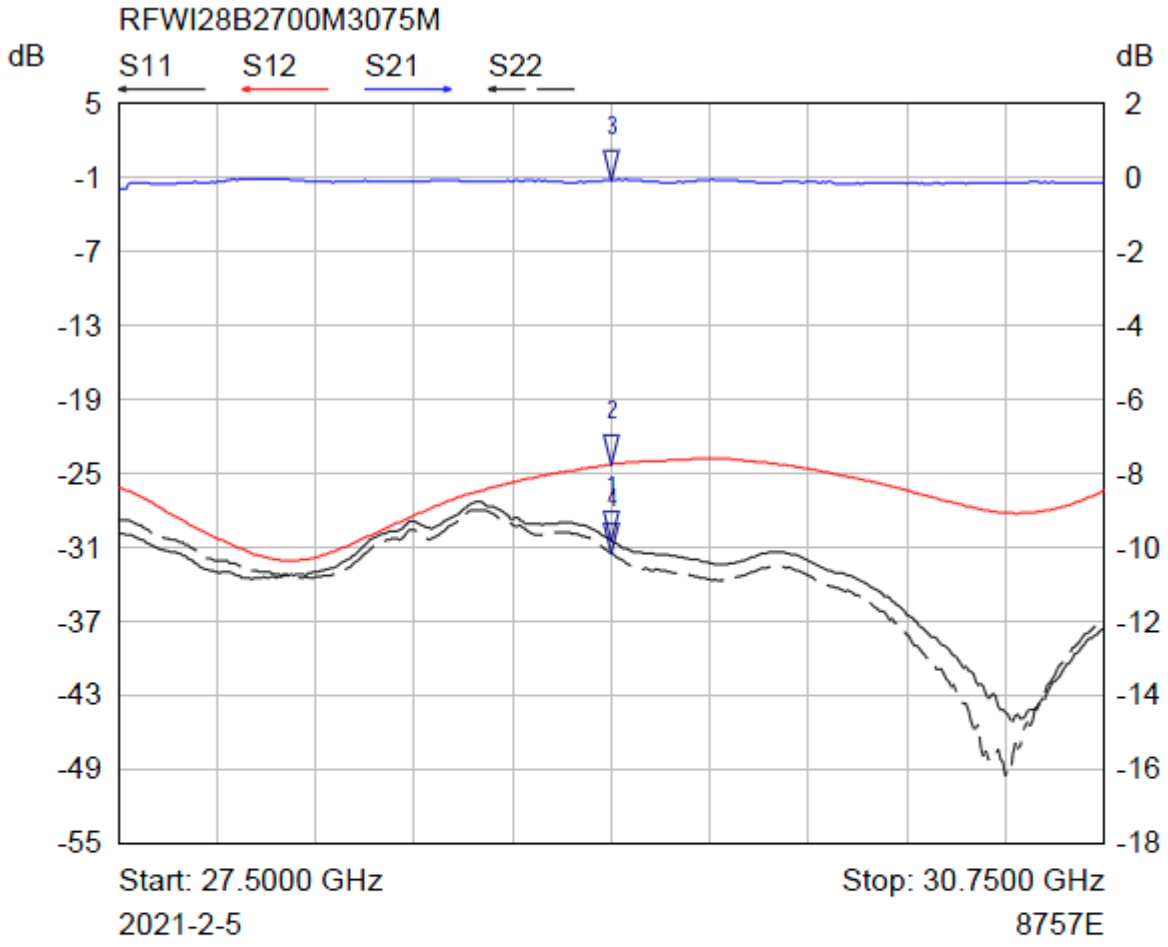
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20℃~+60℃ (Case Temperature)
Storage Temperature	-450℃~+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



Mkr	Trace	X-Axis	Value	Notes
1	S11	29.1250 GHz	-30.48 dB	
2	S12	29.1250 GHz	-24.26 dB	
3	S21	29.1250 GHz	-0.06 dB	
4	S22	29.1250 GHz	-31.50 dB	

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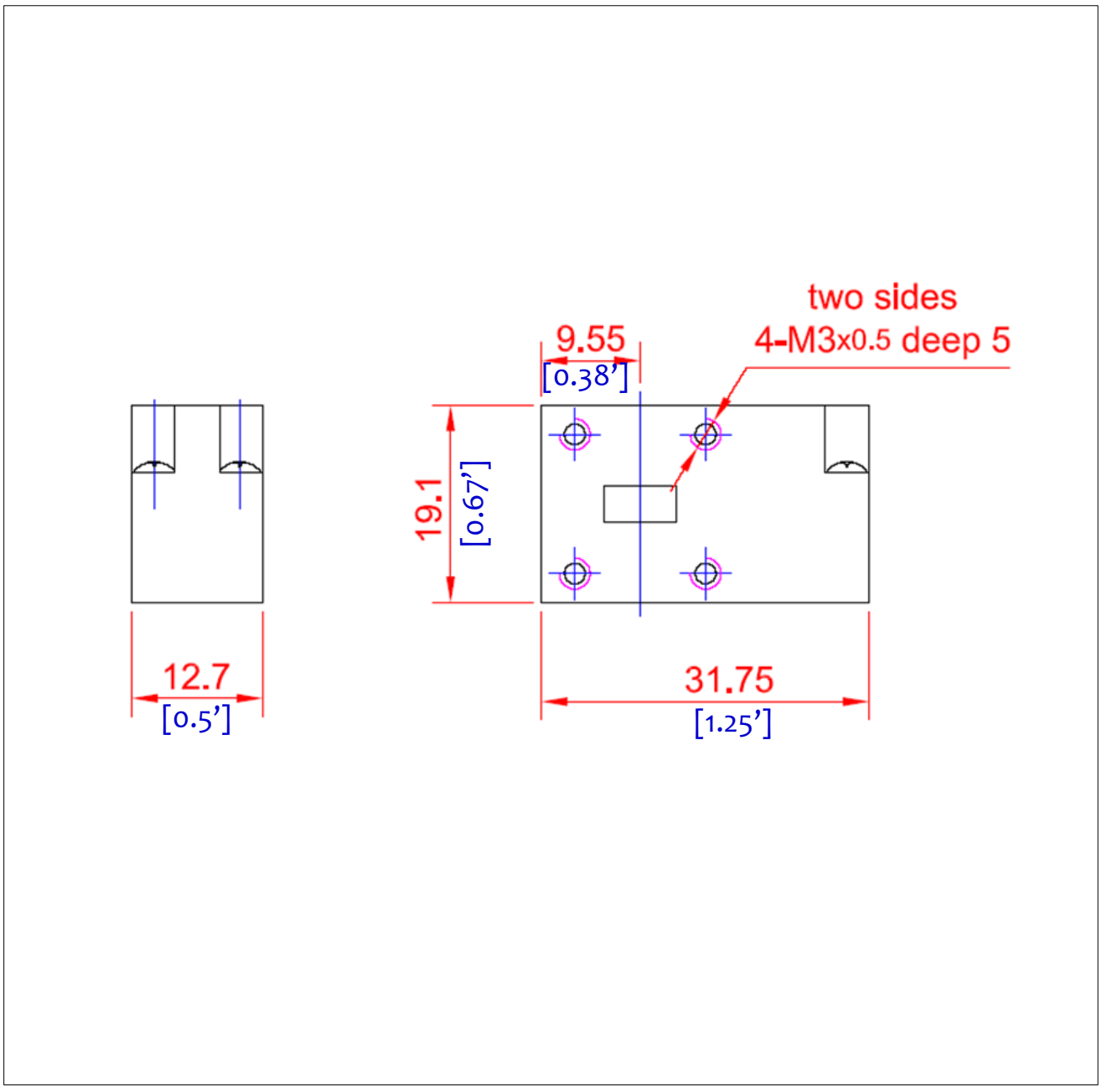
Outline Drawing:

All Dimensions in mm



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