

Wide Band Coaxial Isolator 700-800MHz



Features

- High power handling up to 50W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Typical Applications

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

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	700-800			MHz
Insertion Loss		0.3	0.4	dB
Isolation (Note 1)	23	24		dB
VSWR		1.2	1.25	:1
Forward Power (CW)			50	W
Reverse Power (CW)			5	W
Rotation	Clockwise			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
Weight	8.5 Max.			ounces
Impedance	50			Ω
Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss Bandwidth (5 ~10) % x Center Frequency (Isolation >25dB) Bandwidth (20~30) % x Center Frequency (Isolation >24dB) Bandwidth (40~60) % x Center Frequency (Isolation >23dB) Ask manufacturer for details				

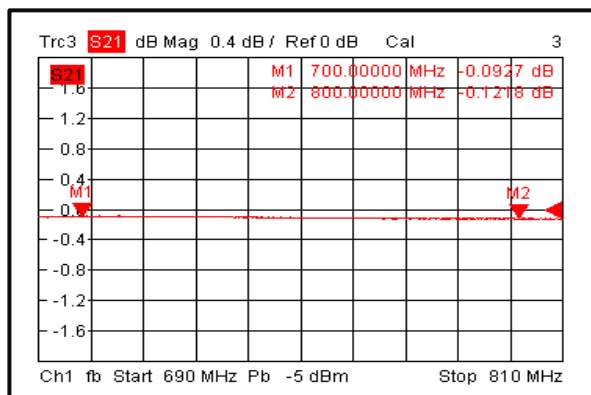
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Environmental Specifications and Test Standards

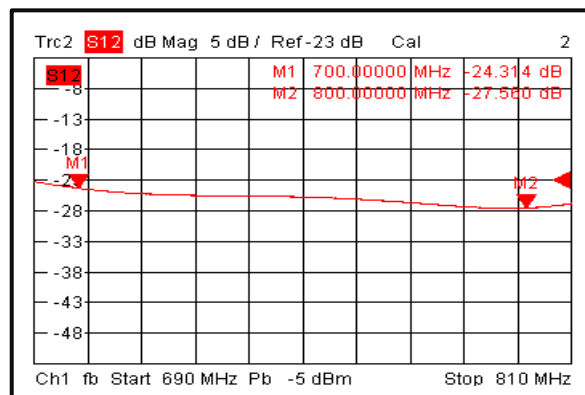
Parameter	Description
Operational Temperature	-20°C~+70°C
Storage Temperature	-45°C~+85°C
Thermal Shock	-20°C → +70°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 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

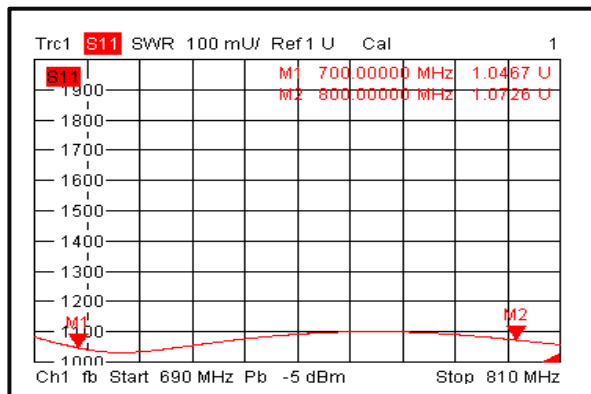
Insertion Loss



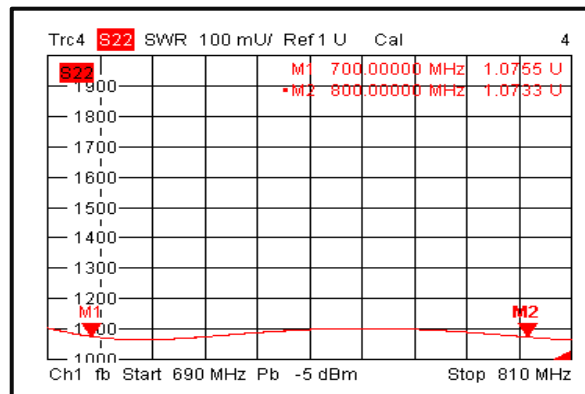
Isolation



VSWR1

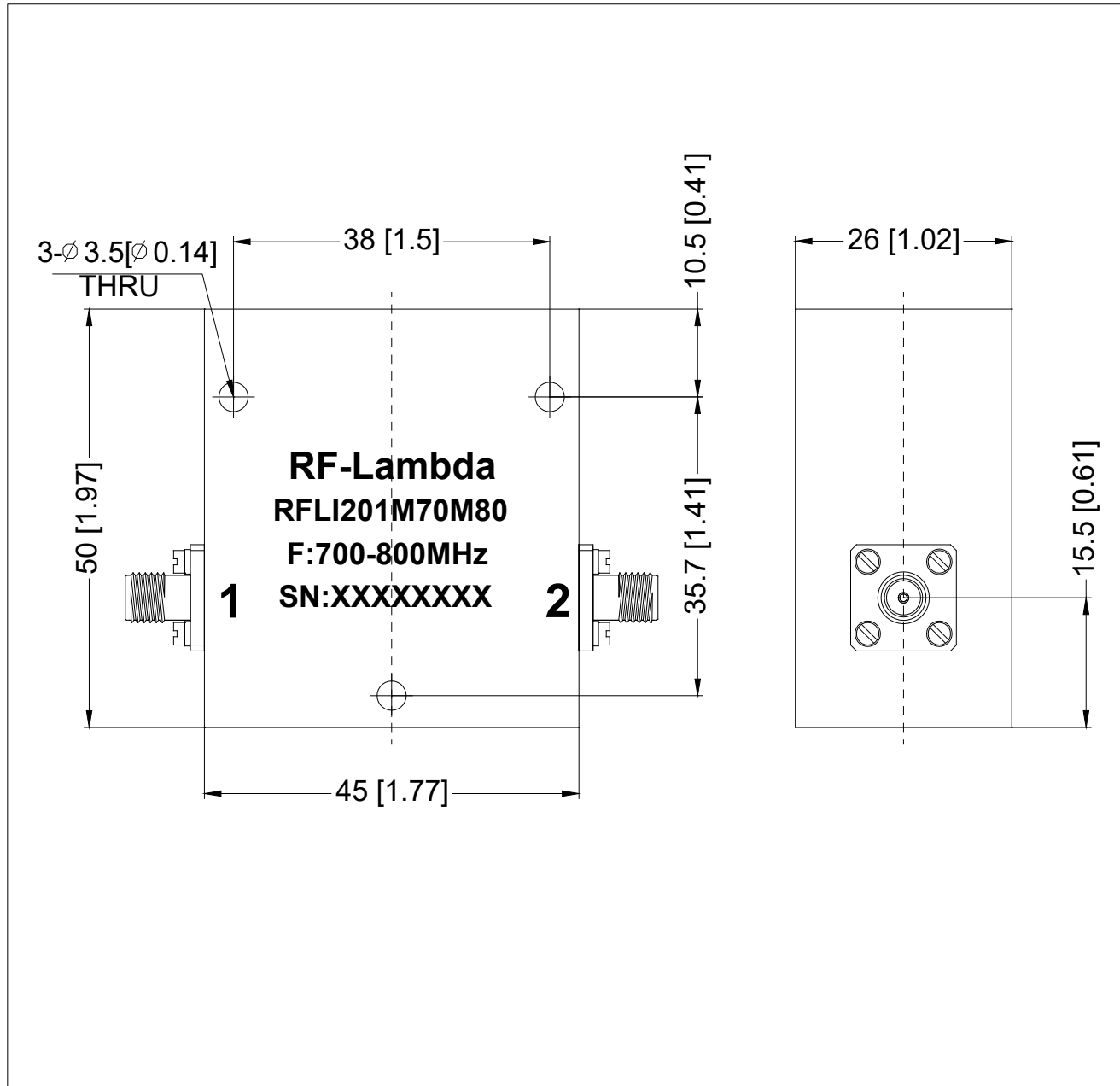


VSWR2



Outline Drawing:

All Dimensions in mm [inches]



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