

Ultra Wide Band Coaxial Isolator 400 – 500MHz



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

Features

- High power handling up to 100W
- · Ultra Wide band operation
- High isolation
- Low Insertion Loss

Typical Applications

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

Electrical Specifications, $T_A=25$ °C

Parameter	Min.	Тур.	Max.	Units	
Frequency Range	400-500			MHz	
Insertion Loss			0.4	dB	
Isolation	20			dB	
VSWR			1.2	:1	
Forward Power (CW)			100	w	
Reverse Power (CW)			10	w	
Rotation	Clockwise (Standard) Counter Clockwise (upon request)				
Input / Output Connectors	RFLI101M40M50S (SMA-Female) RFLI101M40M50N (N-Female)				
Finish	Nickel Plated				
Case Material	Aluminum Alloy				
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 >23dB)

Bandwidth (40~60) % x Center Frequency (Isolation >20dB)

Ask manufacturer for details

RF-LAMBDA USA

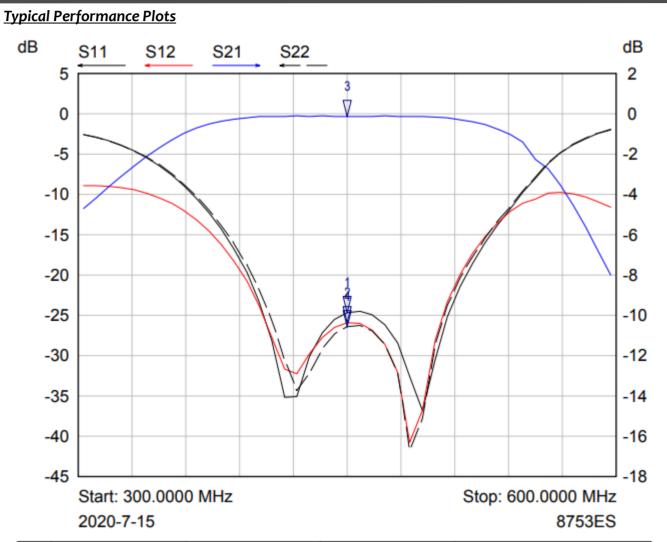
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Environmental Specifications and Test Standards

Parameter	Description		
Operational Temperature	-40°C~+80°C (Case Temperature)		
Storage Temperature	-40℃~+85℃		
Thermal Shock	-40°C → +80°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	In Temperature +70°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)		



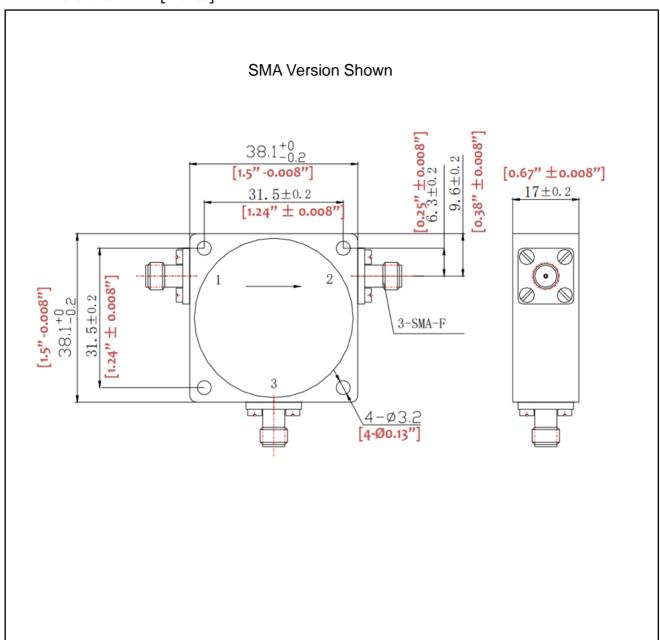


Mkr	Trace	X-Axis	Value	Notes
1 ₹	S11	450.0000 MHz	-24.67 dB	
2 ▽	S12	450.0000 MHz	-25.93 dB	
3 ∇	S21	450.0000 MHz	-0.13 dB	
4 ∇	S22	450.0000 MHz	-26.44 dB	



Outline Drawing:

All Dimensions in mm [inches]



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