

Ultra Wide Band Coaxial Isolator 100MHz-200MHz



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

Features

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

Product Description

RFLI101M10M20 is an ultra wide band coaxial Isolator with a frequency range of 100 to 200MHz.

The Isolator has a typical isolation of 15dB. The maximum insertion loss is 1.5dB.

The operating temperature of this product is within -20 to +70°C

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- · Research and Development
- Cellular Base Stations

Electrical	Specifications	(T _A =25°C)
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Parameter	Min	Тур	Max	Units
Frequency Range		100 – 200		MHz
Insertion Loss			1.5	dB
Isolation	15			dB
VSWR			1.43	:1
Forward Power			50	W
Reverse Power			5	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	RFLI101M10M20NN-Female RFLI101M10M20SSMA-Female			
Weight		-		lbs.
Impedance		50		Ω



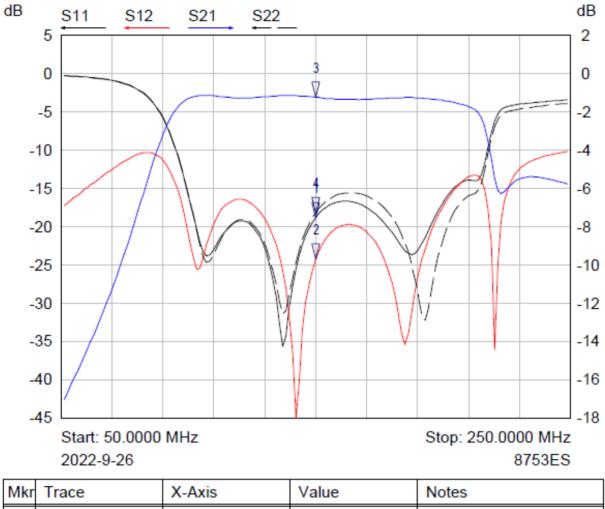
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20°C to +70°C (Case Temperature)
Storage Temperature	-40°C to +85°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	 Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 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

N-Female

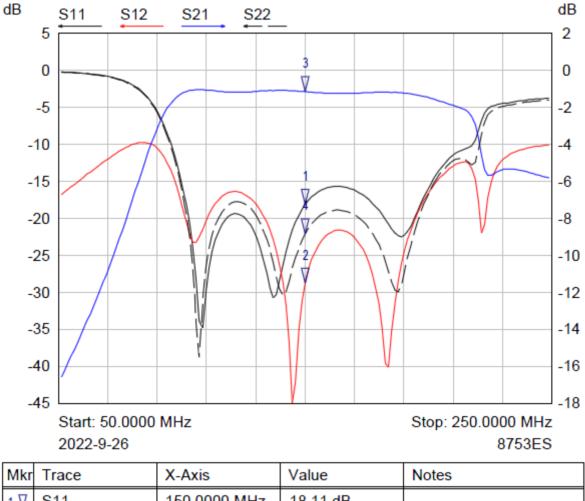


Mkr	Trace	X-Axis	Value	Notes
1 🛛	S11	150.0000 MHz	-18.79 dB	
2 ∑	S12	150.0000 MHz	-24.26 dB	
3 ∏	S21	150.0000 MHz	-1.23 dB	
4 ∏	S22	150.0000 MHz	-18.15 dB	



Typical Performance Plots

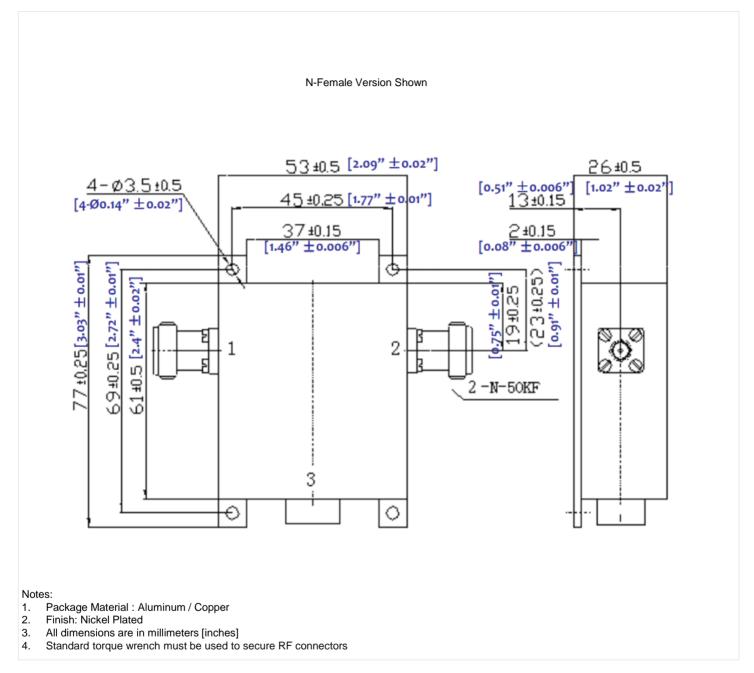
SMA-Female



Mkr	Trace	X-Axis	Value	Notes
1 🛛	S11	150.0000 MHz	-18.11 dB	
2 🛛	S12	150.0000 MHz	-28.74 dB	
3 ∏	S21	150.0000 MHz	-1.15 dB	
4 ∏	S22	150.0000 MHz	-22.08 dB	

RF-LAMBDA THE LEADER OF RF BROADBAND SOLUTIONS

Outline Drawing



Additional Information

Documentation	Webpage	
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf	
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf	
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf	

RFLI101M10M20



Ordering Information

Part Number	Modification	Description
RFLI101M10M20	N-Female or SMA-Female	100MHz-200MHz Coaxial Isolator

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