

Ultra Wide Band Coaxial Isolator 0.95GHz-1.3GHz



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

Features

- High power handling up to 200W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Product Description

RFLI202M95G13 is an ultra wide band coaxial Isolator with a frequency range of 0.95 to 1.3GHz.

The Isolator has a typical isolation of 19dB. The maximum insertion loss is 0.4 dB

The operating temperature of this product is within -40 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)

Para	nmeter	Min	Тур	Max	Units
Frequency Range			0.95 – 1.3		GHz
Insertion Loss				0.40	dB
Isolation (Note 1)		19			dB
VSWR				1.29	:1
Forward Power (CW)				200	W
Reverse Power (CW)				20	W
Rotation		Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors		RFLI202M95G13S (SMA-Female) RFLI202M95G13N (N-Female)			
Majaht	SMA–Female	0.375		lbs.	
Weight	N-Female	0.45			ibs.
Impedance			50		Ω

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Environmental Specifications and Test Standards

Parameter	Description		
Operational Temperature	-40°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)		

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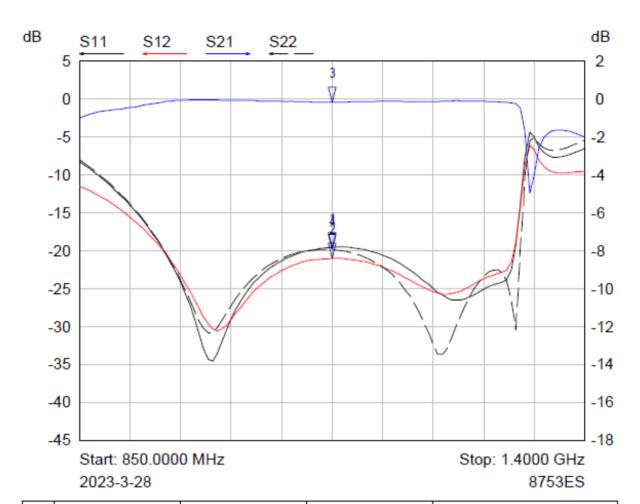
Rev 6. 04-04-2023 | Subject to change without notice

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Technical: support@rflambda.com



Typical Performance Plots

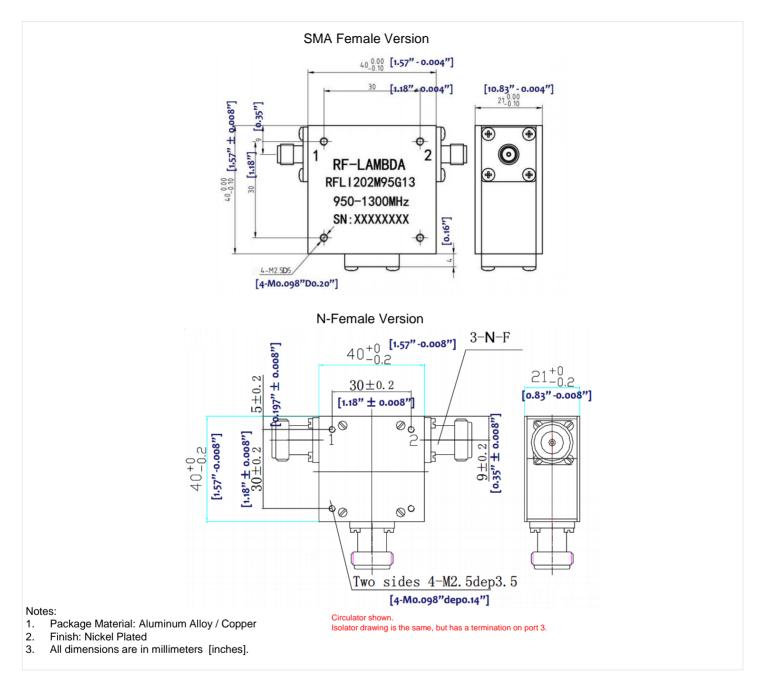


Mkr	Trace	X-Axis	Value	Notes
1	S11	1.1250 GHz	-19.56 dB	
2 ∇	S12	1.1250 GHz	-21.03 dB	
3 ∑	S21	1.1250 GHz	-0.17 dB	
4 ∇	S22	1.1250 GHz	-19.84 dB	

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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		



Ordering Information

Part Number	Modification	Description	
RFLI202M95G13S	SMA Female Connectors	0.95GHz-1.3GHz Coaxial Isolator	
RFLI202M95G13N	N Female Connectors	0.95GHz-1.3GHz Coaxial Isolator	

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