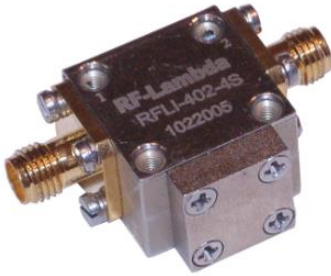


Wide Band Coaxial Isolator 0.95GHz – 1.2GHz



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

Features

- High power handling up to 10W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Product Description

RFLI201B95MG12SMF is a wide band coaxial isolator with a frequency range of 0.95 to 1.2GHz.

The Isolator has a typical isolation of 22dB. The maximum insertion loss is 0.5dB.

The operating temperature of this product is from -20 to +60°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

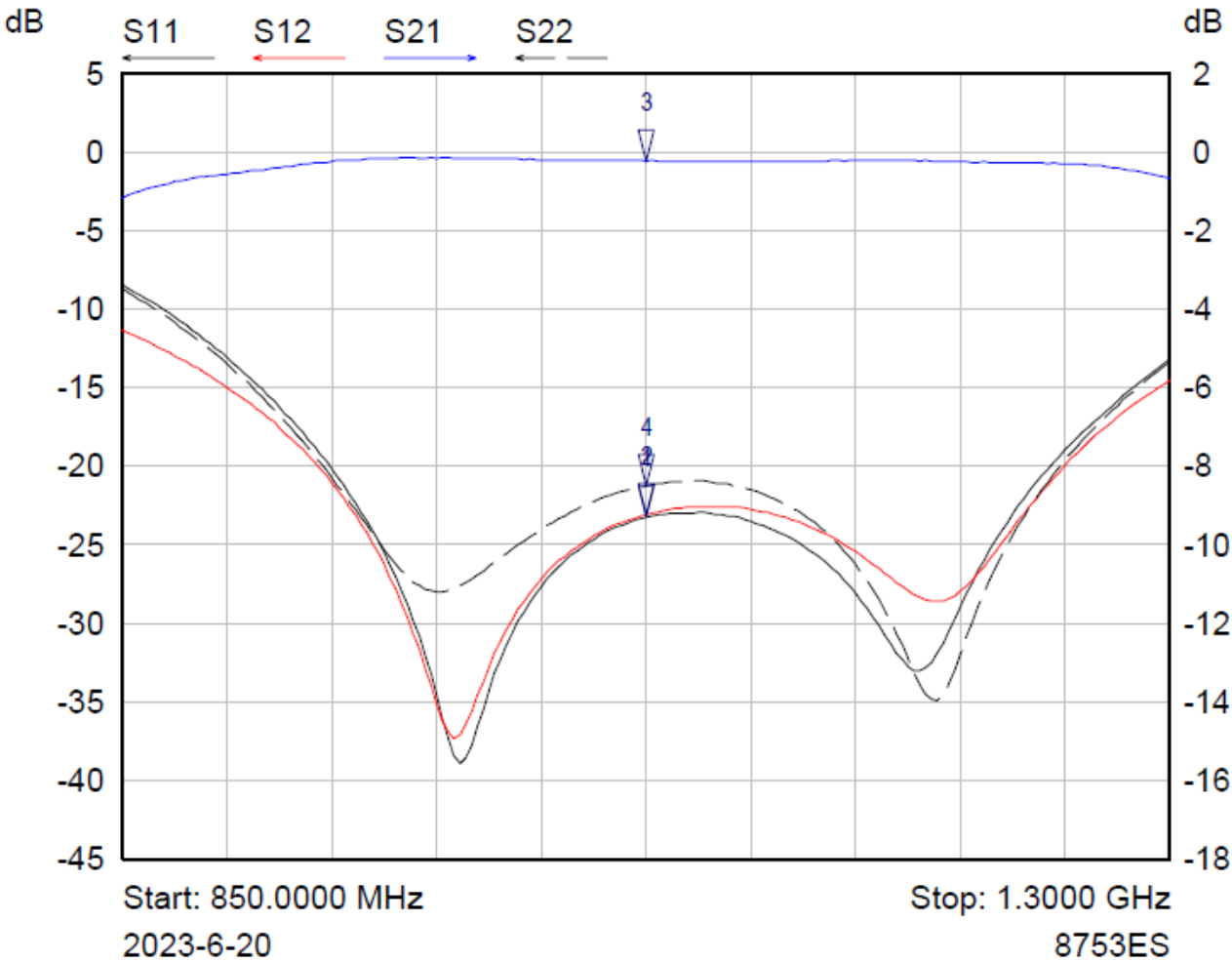
Electrical Specifications($T_A=25^\circ\text{C}$)

Parameter	Min	Typ	Max	Units
Frequency Range		0.95 – 1.2		GHz
Insertion Loss		0.2	0.5	dB
Isolation	19	22		dB
VSWR		1.20	1.25	:1
Forward Power (CW)			10	W
Reverse Power (CW)			1	W
Rotation		Clockwise (Standard) Counter Clockwise (upon request)		
Connectors		SMA-Male / SMA-Female		
Impedance		50		Ω

Environmental Specifications and Test Standards

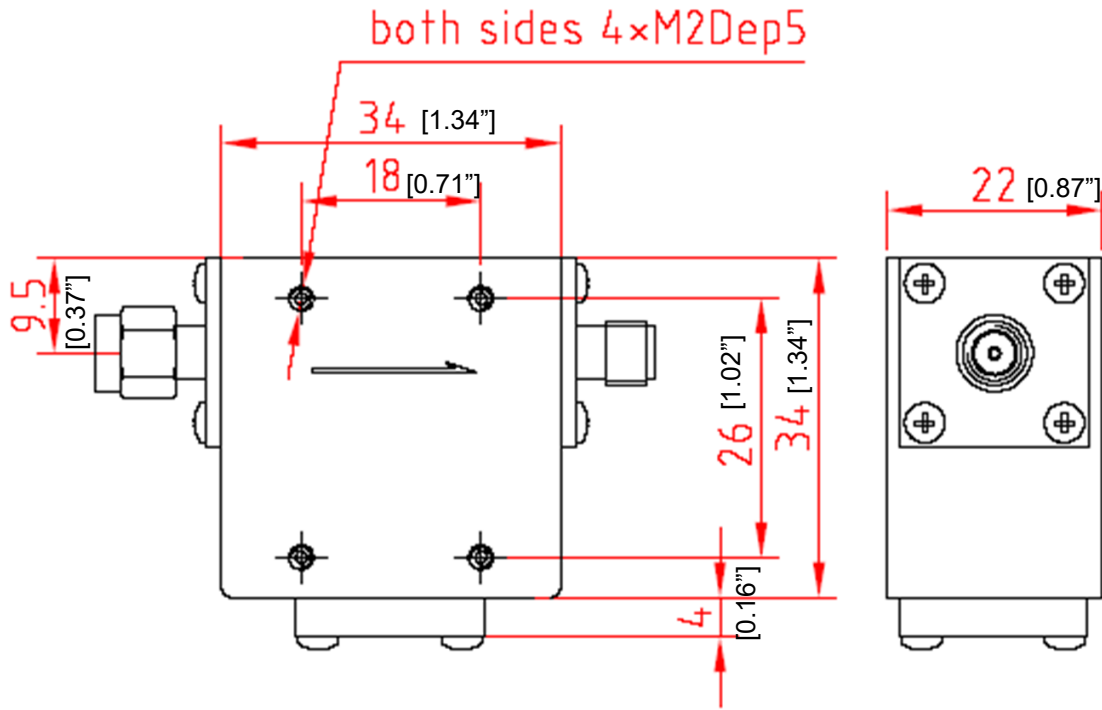
Parameter	Description
Operational Temperature	-20°C to +60°C (Case Temperature)
Storage Temperature	-40°C to +85°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	1. Weight >20g, 50g half sine wave for 11ms, 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	1.0750 GHz	-23.27 dB	
2 ▾	S12	1.0750 GHz	-23.07 dB	
3 ▾	S21	1.0750 GHz	-0.22 dB	
4 ▾	S22	1.0750 GHz	-21.22 dB	

Outline Drawing



Notes:

1. Package Material: Aluminum Alloy
2. Finish: Nickel Plated
3. All dimensions are in millimeters [inches].
4. Standard torque wrench must be used to secure RF connectors.

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
RFLI201B95MG12SMF	Connectors SMA-Male / SMA-Female	0.95GHz-1.2GHz Coaxial Isolator

Important Notice

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