

Ultra Wide Band Coaxial Isolator 0.9 - 1.5GHz



Features

- High power handling up to 50W
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless infrastructure

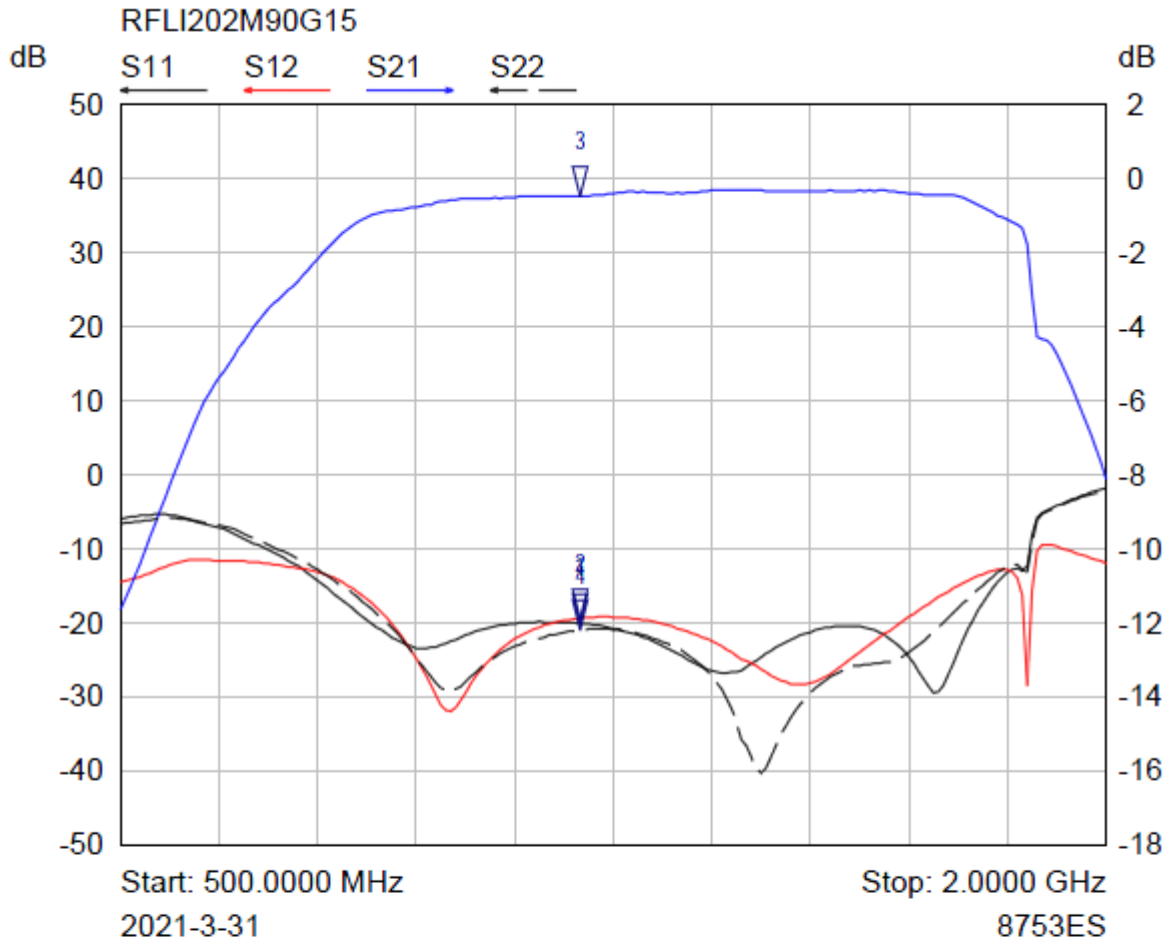
Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	0.9-1.5			GHz
Insertion Loss			1.0	dB
Isolation	18			dB
VSWR			1.3	:1
Forward Power (CW)			50	W
Reverse Power (CW)			10	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	N-Female			
Finishing	Nickel Plated			
Case Material	Aluminum alloy			
Weight	14.11			ounces
Impedance	50			Ω

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-10°C~+50°C (Case Temperature)
Storage Temperature	-40°C~+85°C
Thermal Shock	-10°C → +50°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 +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)

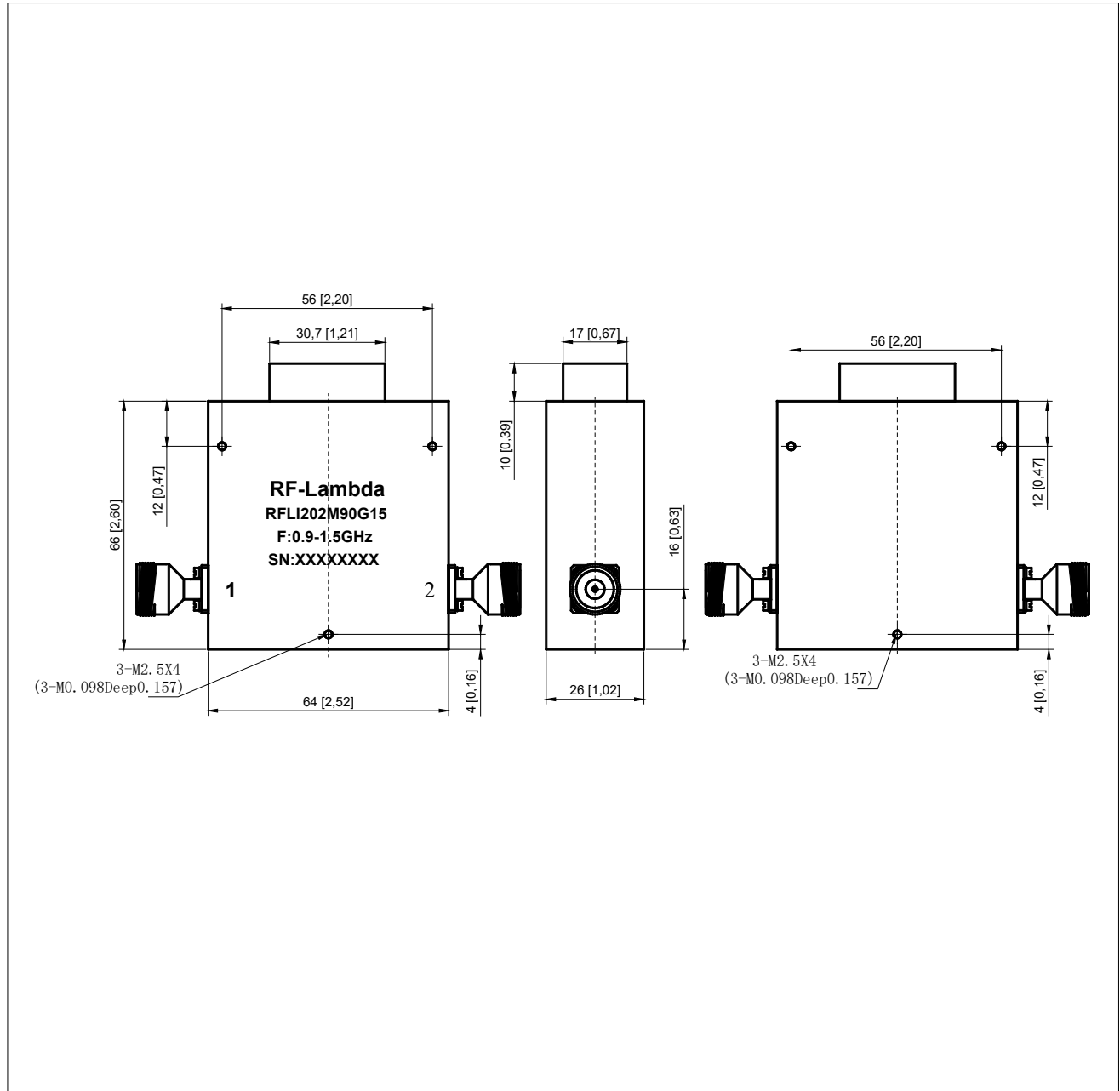
Typical Performance Plots



SN:20210301

Outline Drawing:

All Dimensions in mm



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