

Ultra Wide Band Coaxial Isolator 100-200MHz



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

Key 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
- 5G LTE Communications
- Radar and Satellite

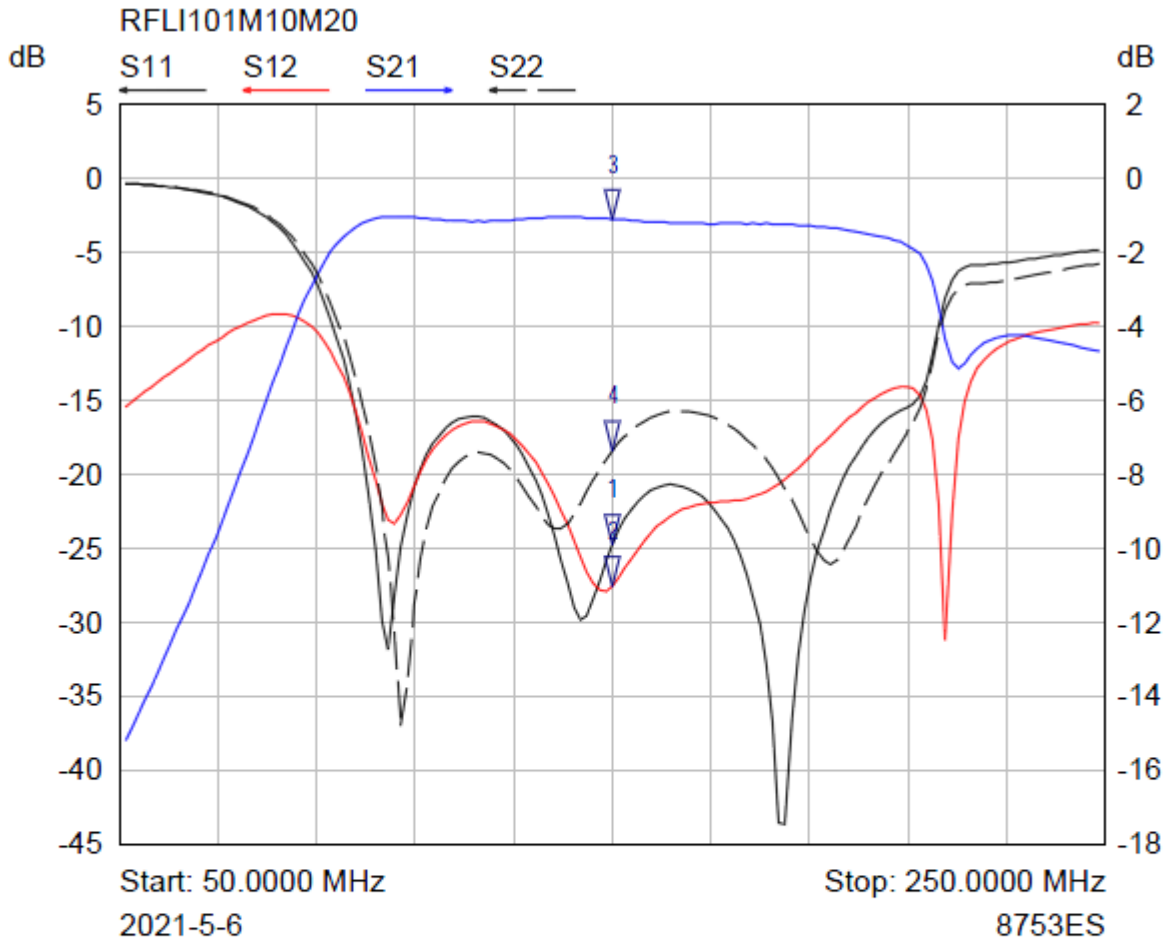
Electrical Specifications, $T_A=25^\circ\text{C}$

Parameter	Min	Typ	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	SMA-Female or N-Female			
Finish	Nickel Plated			
Case Material	Aluminum / Copper			
Impedance	50			Ω

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20°C~+70°C
Storage Temperature	-40°C~+85°C
Thermal Shock	-20°C → +70°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 +85°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



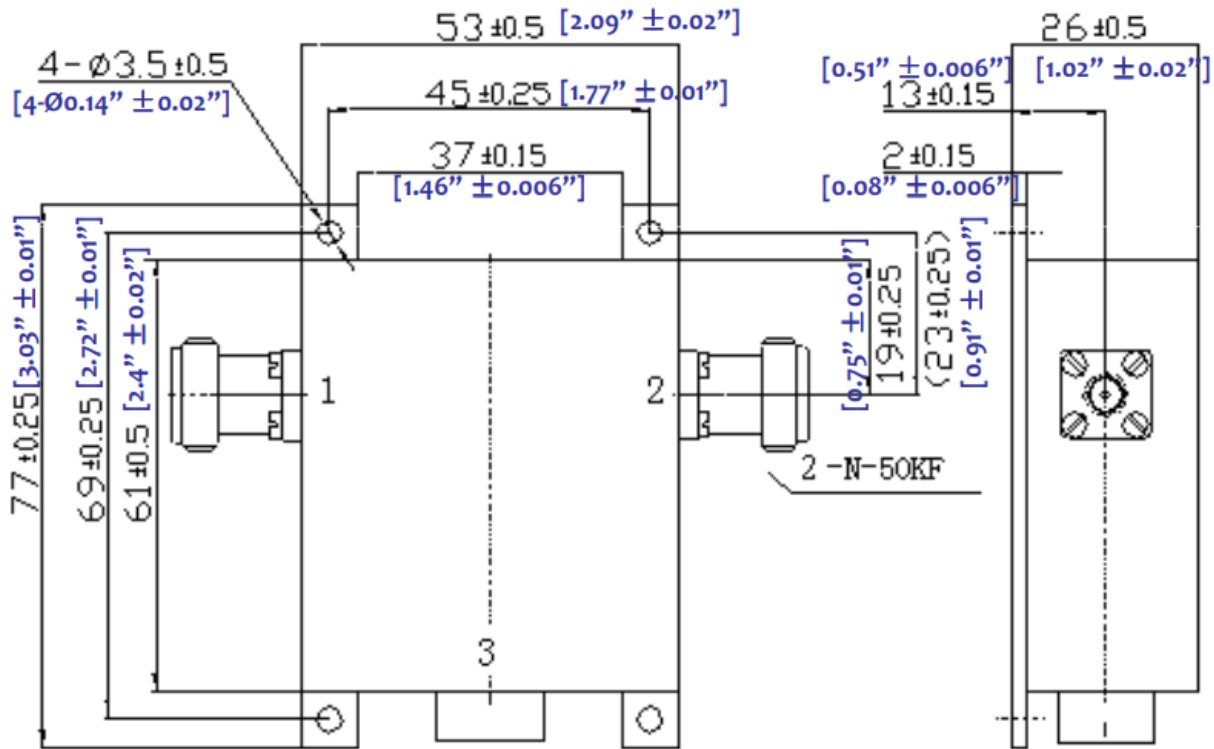
Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	150.0000 MHz	-24.71 dB	
2 ▽	S12	150.0000 MHz	-27.58 dB	
3 ▽	S21	150.0000 MHz	-1.09 dB	
4 ▽	S22	150.0000 MHz	-18.39 dB	

SN:210516

Outline Drawing

All Dimensions in mm [inches]

N-Female Version Shown



Note: Standard torque wrench must be used to secure RF connectors.

Important Notice

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