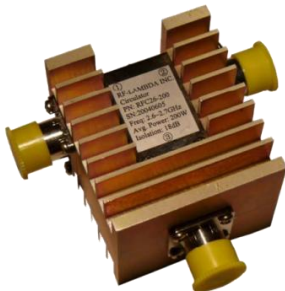


200W Wide Band High Power Circulator 2.1GHz-2.9GHz



Product Description

RFC26-200 is a 200W wide band circulator with a frequency range of 2.1 to 2.9GHz.

The circulator has a minimum isolation of 20dB. The maximum insertion loss is 0.5dB.

The circulator input and output connectors are N-Female.

Features

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

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

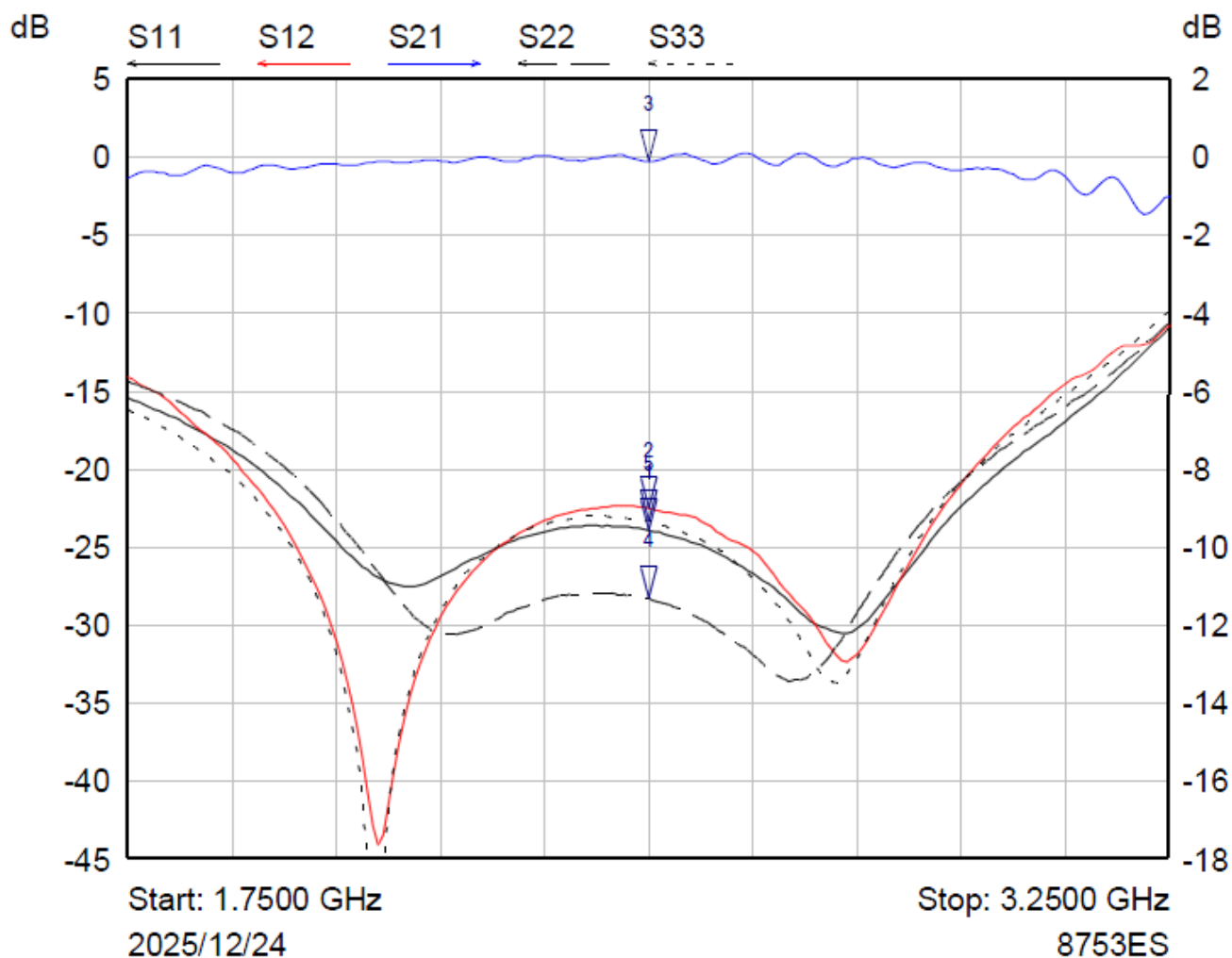
Parameter	Min	Typ	Max	Units
Frequency Range		2.1-2.9		GHz
Insertion Loss			0.5	dB
Isolation	20			dB
VSWR			1.2	:1
Forward Power (CW)			200	W
Rotation		Clockwise (Standard) Counter Clockwise (upon request)		
Input / Output Connectors		N-Female		
Impedance		50		Ω

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 → +70°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)

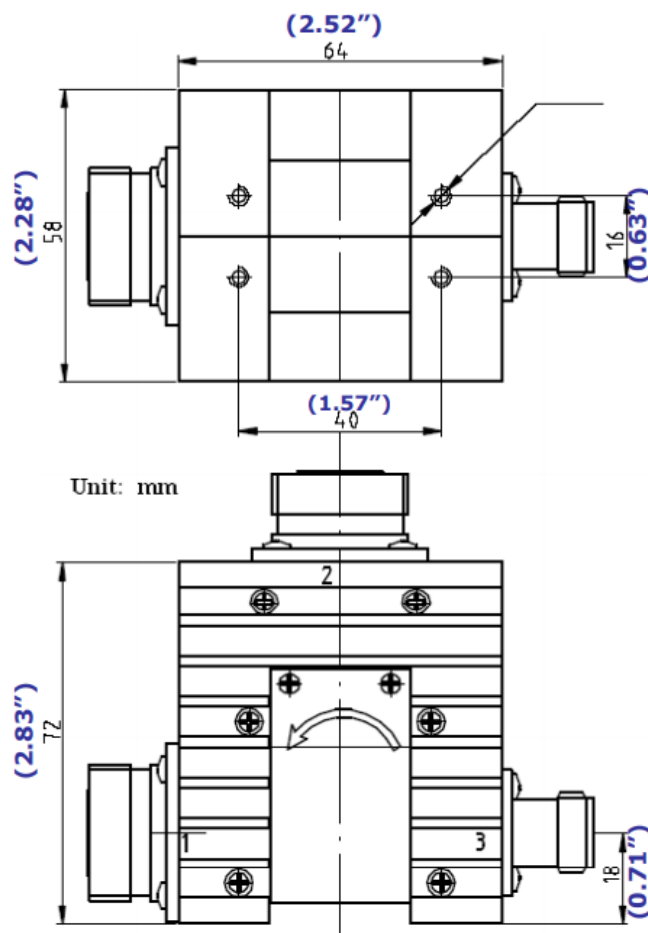
*For vibration testing details please see additional information section.

Typical Performance Plots



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	2.5000 GHz	-23.88 dB	
2 ▽	S12	2.5000 GHz	-22.51 dB	
3 ▽	S21	2.5000 GHz	-0.10 dB	
4 ▽	S22	2.5000 GHz	-28.28 dB	
5 ▽	S33	2.5000 GHz	-23.29 dB	

Outline Drawing



Alternate Connector Configuration Shown
All Ports N-Female is standard.

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
RFC26-200	Connectors N-Female	2.1GHz-2.9GHz High Power Circulator

Important Notice

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