High Power Circulator
5.4GHz-5.9GHz

Product Description

The RFC26W600M5650 is a high power circulator with a frequency range of 5.4 to 5.9GHz.

The circulator has a minimum isolation of 19dB. The maximum insertion loss is 0.5dB.

The operating temperature of this product is within -10 to +50ºC

Features

- High power handling up to 600W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- All specifications can be modified upon request

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=+25ºC)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		5.4-5.9		GHz
Insertion Loss			0.50	dB
Isolation	19			dB
VSWR			1.25	:1
Power handing			600	W
Peak power handling			12	KW
Rotation		Clockwise (Standard) Counter Clockwise (upon request)		
Input / Output Connectors		DIN 7/16 (Female)		
Impedance		50		Ω

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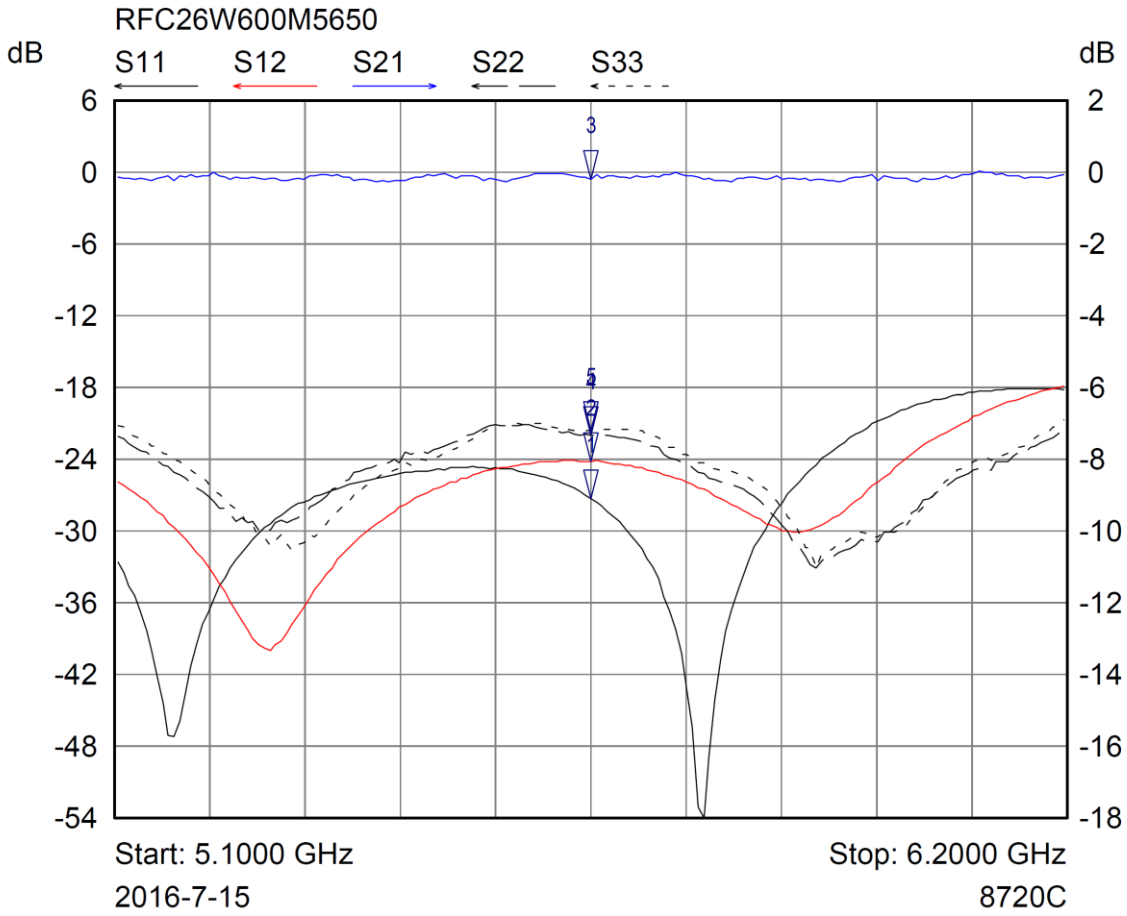
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-10ºC to +50ºC (Case Temperature)
Storage Temperature	-40ºC to +85ºC
Thermal Shock	-10ºC → +50ºC (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)

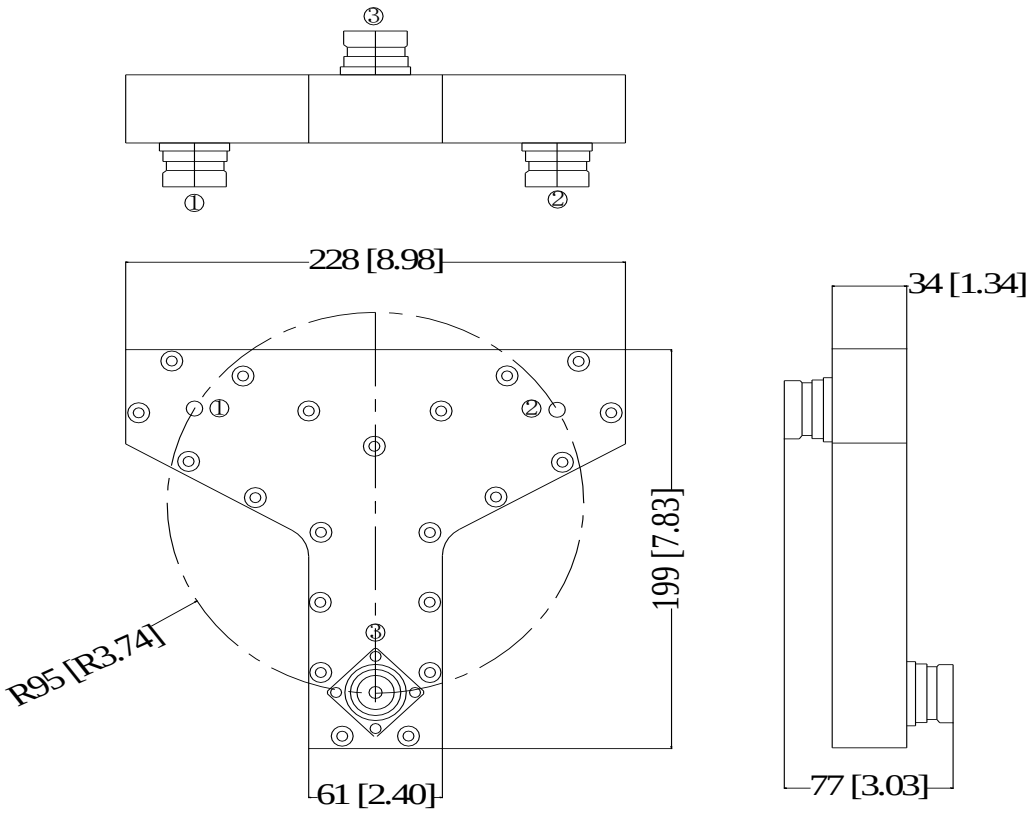
*For vibration testing details please see additional information section.

Typical Performance Plots



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	5.6500 GHz	-27.28 dB	
2 ▽	S12	5.6500 GHz	-24.19 dB	
3 ▽	S21	5.6500 GHz	-0.19 dB	
4 ▽	S22	5.6500 GHz	-22.03 dB	
5 ▽	S33	5.6500 GHz	-21.61 dB	

Outline Drawing



Notes:
1. Package Material: Aluminum Alloy
2. Finish: Conductive Oxide (not painted)
3. All dimensions are in millimeters [inches]

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
RFC26W600M5650	Connectors DIN 7/16 (Female)	5.4GHz-5.9GHz High Power Circulator

Important Notice

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