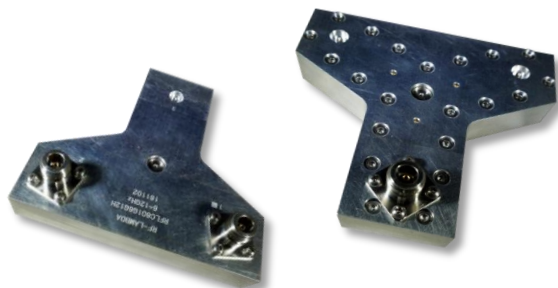


150W Wide Band High Power Circulator 6 - 12GHz



Product Description

RFLC601G6G12H is a 150W wide band high power circulator with a frequency range of 6 to 12GHz.

The circulator has a typical isolation of 16dB. The maximum insertion loss is 0.8dB.

The operating temperature of this product is within -20 to +50°C

Features

- High power handling up to 150W
- 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

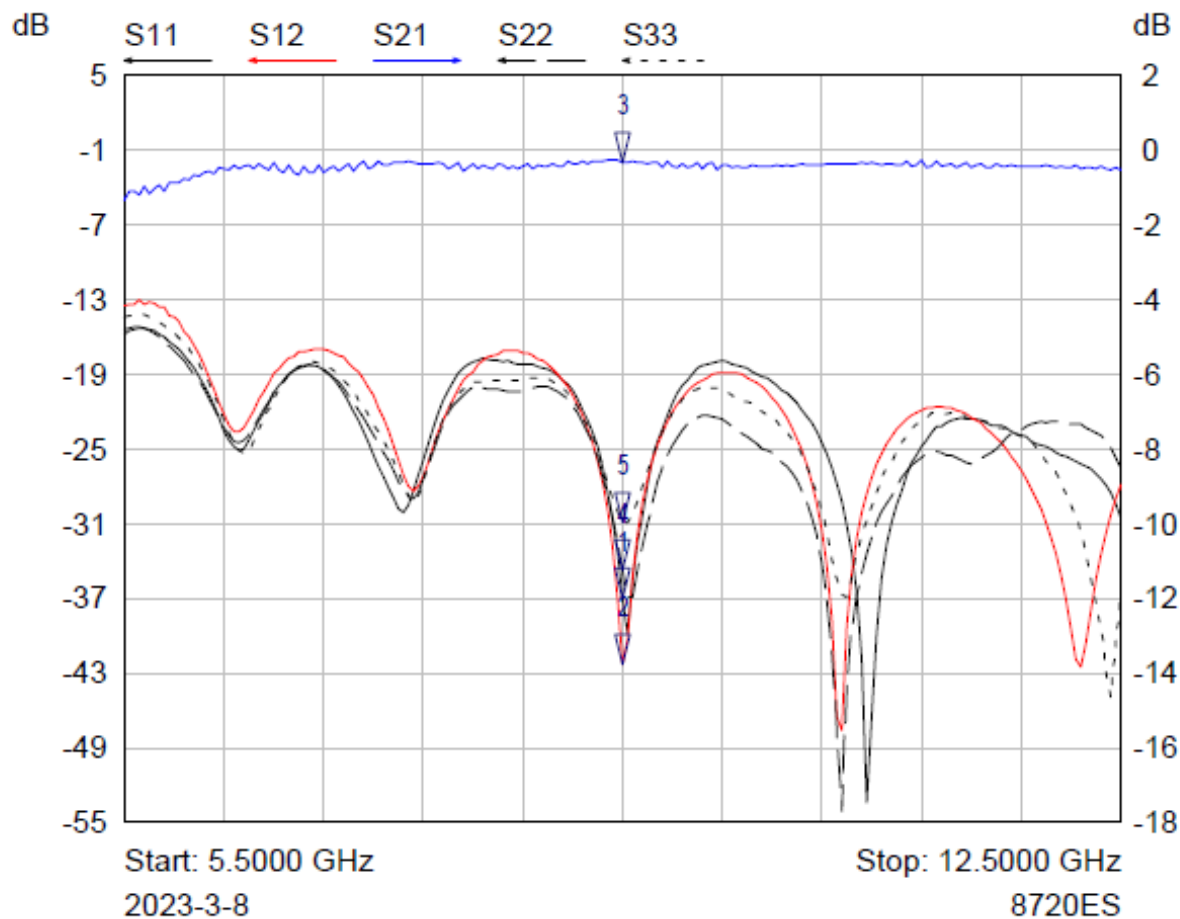
Electrical Specifications($T_A=25^\circ\text{C}$)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		6-12		GHz
Insertion Loss		0.65	0.8	dB
Isolation	16	17		dB
VSWR		1.30	1.35	:1
Forward Power (CW)			150	W
Reverse Power (CW)			150	W
Peak Power			1200	W
Rotation		Clockwise (Standard) Counter Clockwise (upon request)		
Input / Output Connectors		N-Female		
Impedance		50		Ω

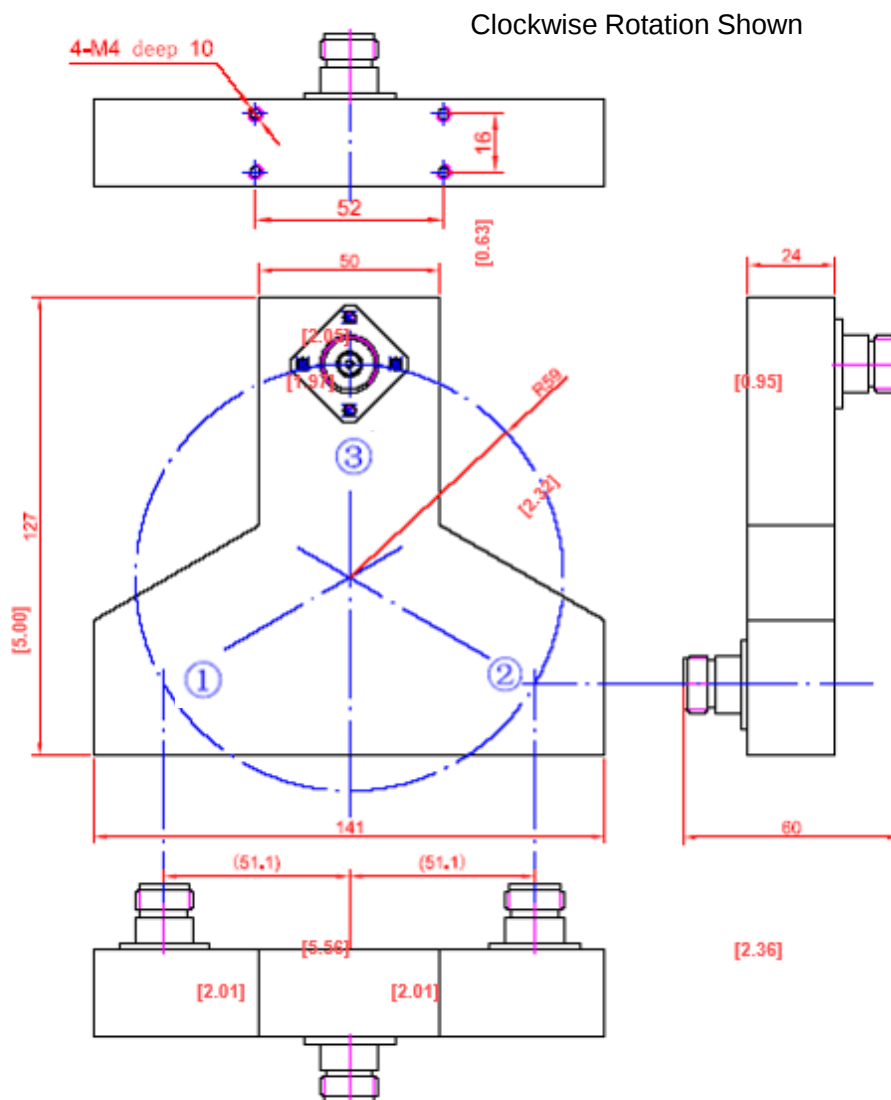
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20°C to +50°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



Outline Drawing



Notes:

1. Package Material: Aluminum Alloy
2. Finish: Oxidation
3. All dimensions are in millimeters [inches]

Additional Information

Documentation

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

Webpage

Ordering Information

Part Number	Modification	Description
RFLC601G6G12H	N Female Connectors	6GHz-12GHz High Power Circulator

Important Notice

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