

Suspended Substrate Stripline High Pass Filter 13GHz-22GHz



Product Description

RHPF23G13G22 is a suspended substrate stripline high pass filter with a frequency range of 13 to 22GHz.

The max power of this low pass filter is 15W. The insertion loss is 0.8dB with a typical rejection of 55dB.

The working temperature of this product is between - 55°C and + 85°C.

Features

- SSS Filter Suspended Substrate Stripline Filter
- Flat frequency response and low insertion loss
- MIL-E-5400 standard

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, TA = +25°C

Р	Parameter		Тур	Max	Units	
Freq	Frequency Range			22	GHz	
Ins	Insertion Loss		0.8	1.0	dB	
Pass	Pass Band Ripple		0.8	1.0	dB	
	VSWR		1.5	1.8	: 1	
Attenuation	@DC-11.05GHz	50	55		dB	
Davier Dating	Average		15		W	
Power Rating	Peak	100 (10% Duty Cycle, 1 us Pulse Width)		e Width)	W	
	Weight		0.05 Max.		Ibs	
lı	Impedance		50		Ω	
Input / C	Input / Output Connectors		SMA-Female(Input) – SMA-Female(Output)			
Package -		Epoxy Sealed (Standard)				
			Hermetically Sealed (Optional)			

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Environmental Specifications and Test Standards

Parameter	Description		
Operational Temperature	-55°C to +85°C (Case Temperature)		
Storage Temperature	-55°C to +125°C		
Thermal Shock	-55°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	 Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 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.

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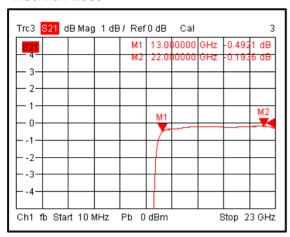
Sales: sales@rflambda.com Technical: support@rflambda.com

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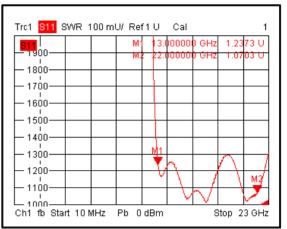


Typical Performance Plots

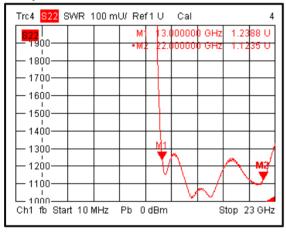
Insertion Loss



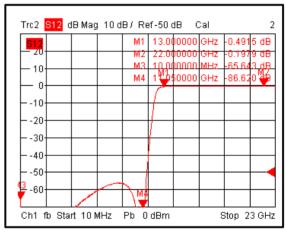
Input VSWR



Output VSWR



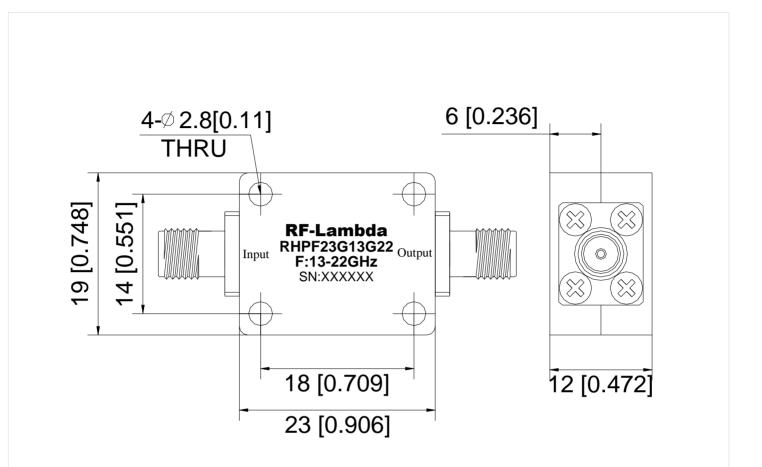
Rejection



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Outline Drawing



Notes:

- 1. Package Material: Aluminum
- 2. Finish: Blue Paint
- 3. All dimensions are in millimeters [inches].
- 4. Outline Tolerances ±0.5 [0.02], Mounting Hole Tolerances ±0.2 [0.008] unless otherwise specified.
- Standard torque wrench must be used to secure RF connectors.



Additional Information

Documentation	Webpage		
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		

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Ordering Information

Part Number	Modification	Description
RHPF23G13G22	Standard	13GHz-22GHz SSS High Pass Filter

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