



# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RHPF23G04G12

### Suspended Substrate Stripline High Pass Filter 4 - 12GHz



#### Features

- SSS Filter - Suspended Substrate Stripline Filter
- Flat frequency response and low insertion loss
- Covers the 1 GHz to 18 GHz Frequency Range
- Wide bandwidth and 3 dB BW Available from 5-50% (fo)
- Designs that Cover up to 40 GHz Also Available
- MIL-E-5400 standard

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

Parameters		Min.	Typ.	Max.	Units
Frequency Range		4		12	GHz
Insertion Loss				1.0	dB
Pass Band Ripple				1.0	dB
VSWR				1.8	: 1
Rejection	@DC-3.4GHz	50			dB
Power Rating	Average			15	W
	Peak			0.1	KW
Impedance		50			Ohms
Weight		1.41			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

#### Environmental Specifications and Test Standards

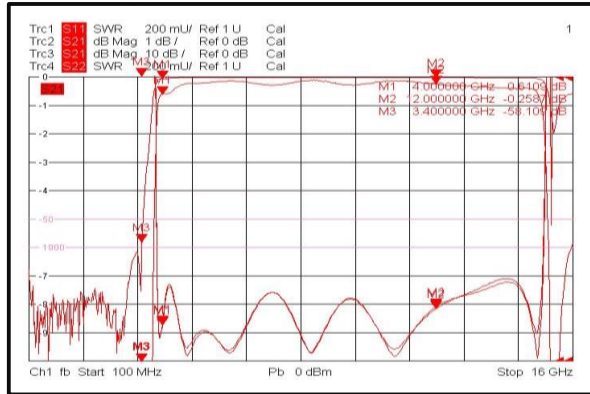
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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	MIL-STD-883 (For Hermetically Sealed Units)

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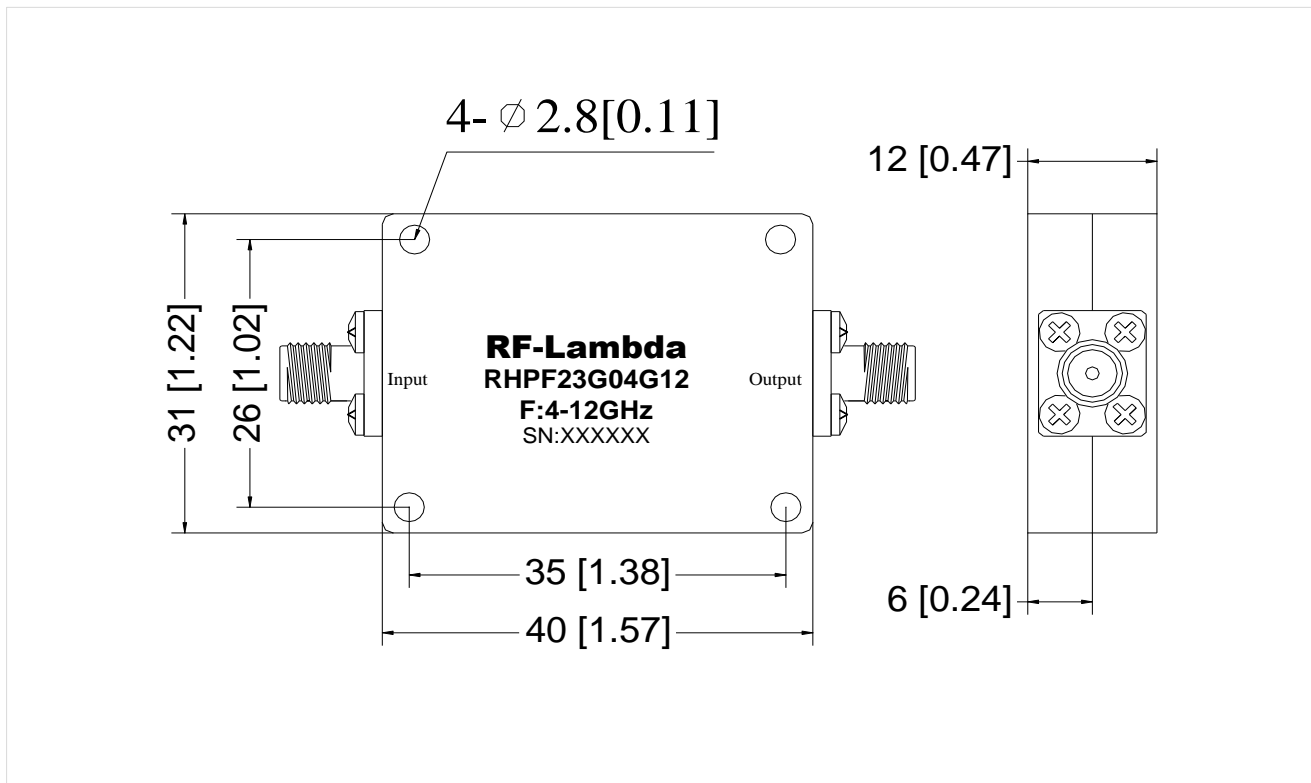
### Typical Performance Plots

#### Loss, Ripple, Rejection, VSWR



### Outline Drawing:

All Dimensions in mm [inches]



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