

## SSS-Suspended Substrate Stripline High Pass Filter 13- 22GHz



### Features

- Suspended Substrate Strip-line Filter
- Flat Frequency Response
- Low Insertion Loss

### Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

Electrical Specifications,  $T_A = +25^\circ C$

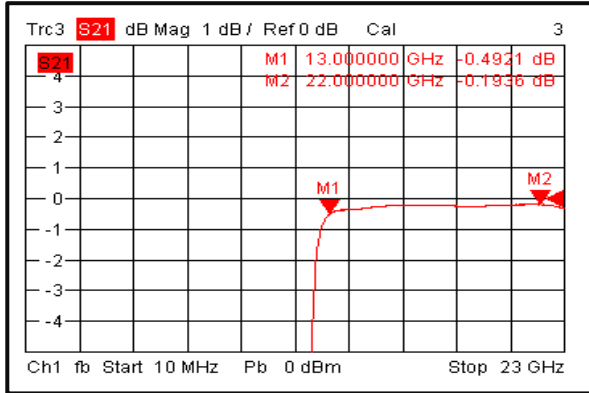
Parameter		Min.	Typ.	Max.	Units
Frequency Range		13		22	GHz
Insertion Loss			0.8	1.0	dB
Pass Band Ripple			0.8	1.0	dB
VSWR			1.5	1.8	: 1
Attenuation	@DC-11.05GHz	50	55		dB
Power Rating	Average			15	W
	Peak			100	W
Impedance		50			Ohms
Weight		0.75 Max.			Ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

**Environmental Specifications and Test Standards**

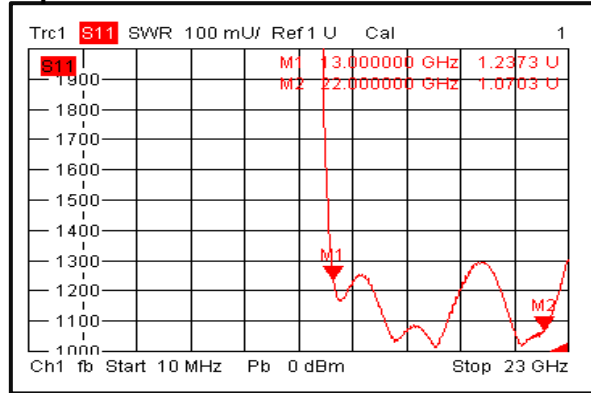
Parameter	Description
Operational Temperature	-55°C~+85°C (Case Temperature)
Storage Temperature	-55°C~+125°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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 (For Hermetically Sealed Units)

**Typical Performance Plots**

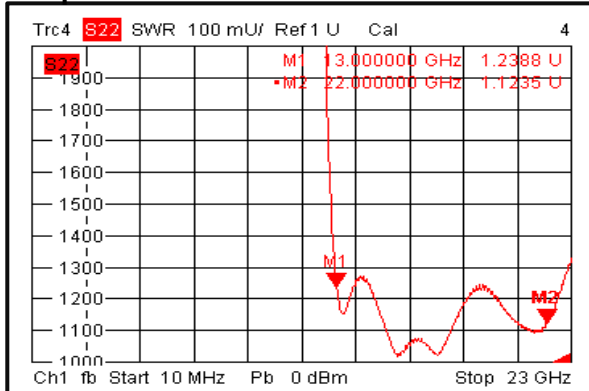
**Loss**



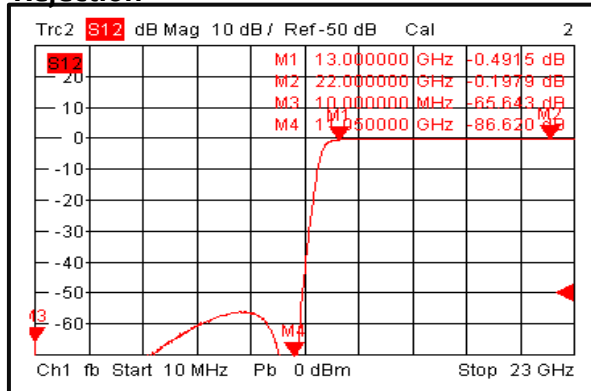
**Input VSWR**



**Output VSWR**



**Rejection**



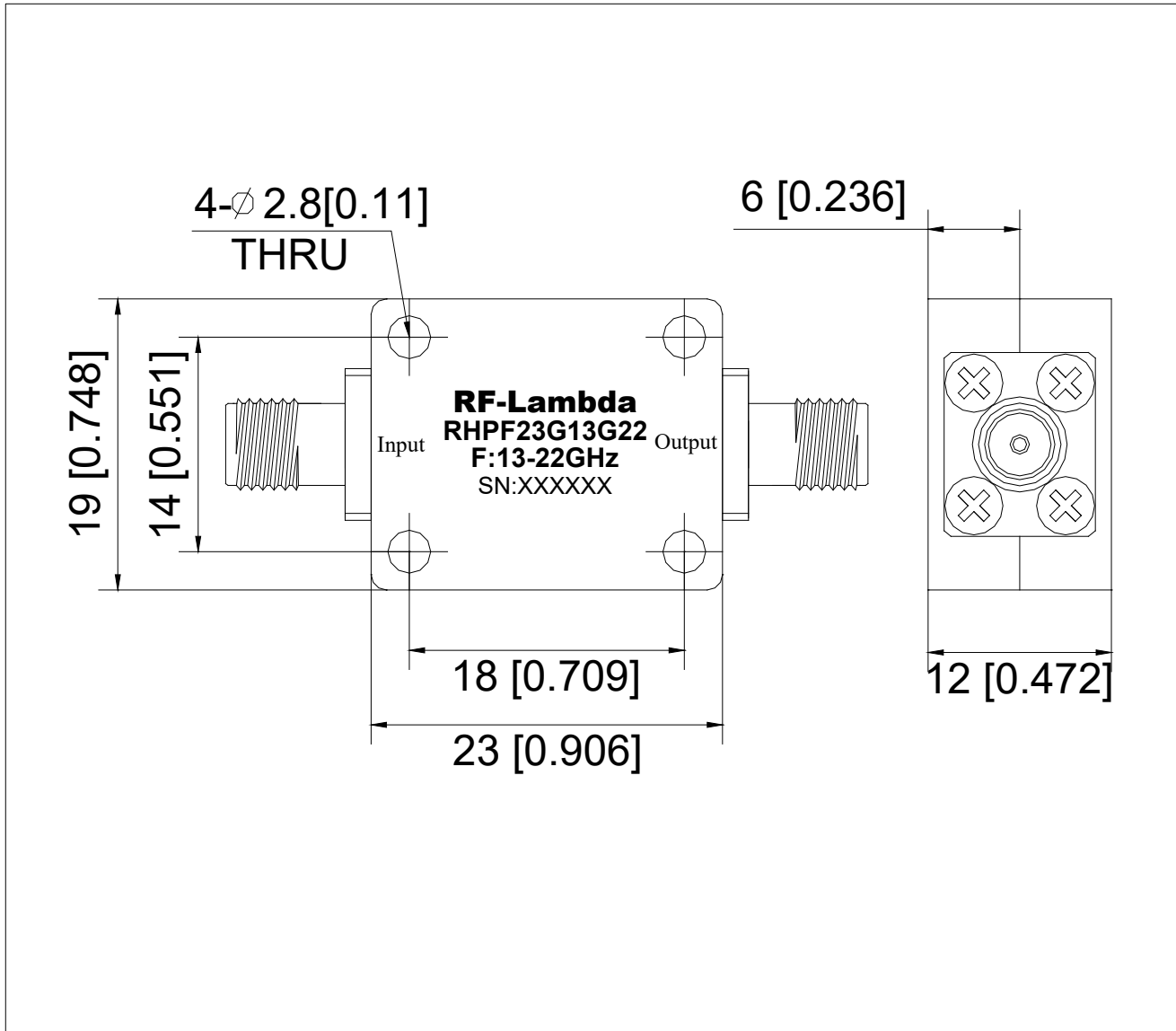
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**Outline Drawing:**

All Dimensions in mm [inches]

Outline Tolerance  $\pm 0.5$  [0.02]

Mounting Hole Tolerance  $\pm 0.2$  [0.008]



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