



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFRLPF13G11

Suspended Substrate Stripline Low Pass Filter DC - 11GHz



Features

- SSS Filter - Suspended Substrate Strip-line Filter
- Flat frequency response and low insertion loss
- Designs that Cover up to 40 GHz Also Available
- MIL-E-5400 standard

Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

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

Parameters		Min.	Typ.	Max.	Units
Frequency Range		DC		11	GHz
Insertion Loss			0.7	1.0	dB
Pass Band Ripple			0.6	0.8	dB
VSWR			1.4	1.6	: 1
Rejection	@12.65-18GHz	50	55		dB
Power Rating	Average			15	W
	Peak			100	W
Impedance		50			Ohms
Weight		0.71			Ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

Environmental Specifications and Test Standards

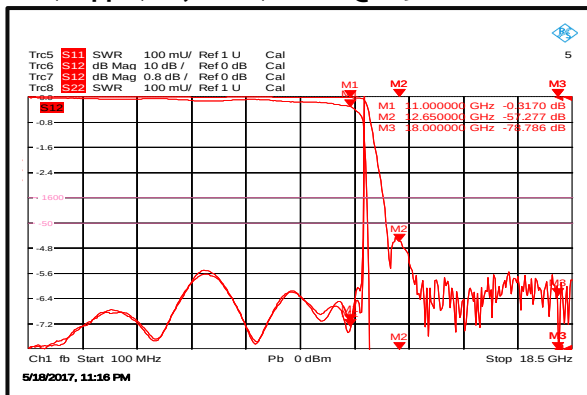
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72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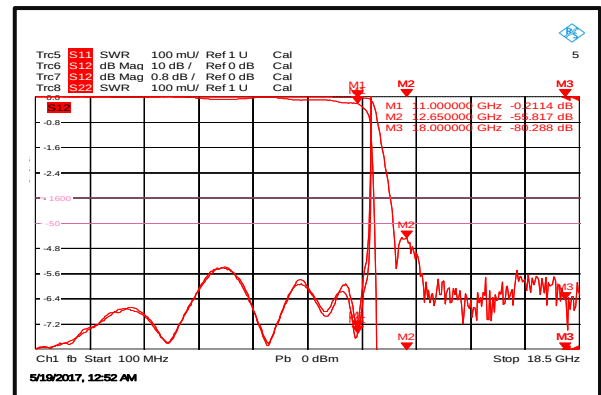


Typical Performance Plots

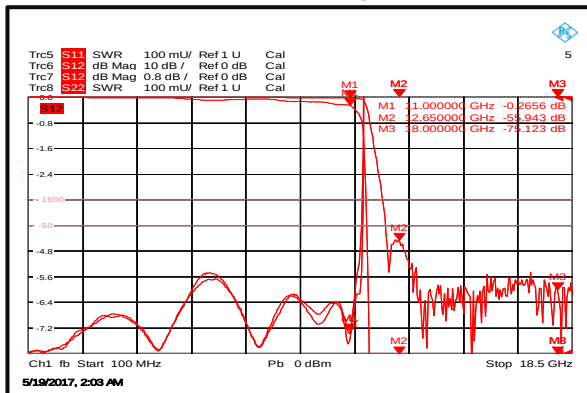
Loss, Ripple, Rejection, VSWR @+25°C



Loss, Ripple, Rejection, VSWR @-45°C



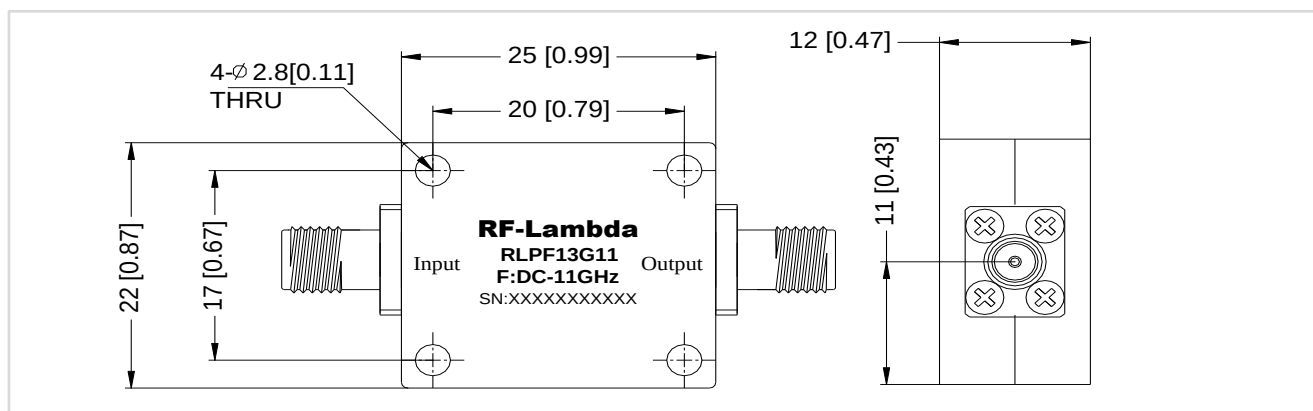
Loss, Ripple, Rejection, VSWR @85°C



Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.2 [0.008]



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