



Suspended Substrate Stripline Low Pass Filter DC - 7GHz



Features

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

Typical Applications

- Test and Measurement
- Military and Aerospace
- Wireless Infrastructure

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

Parameters		Min.	Typ.	Max.	Units
Center Frequency		DC		7	GHz
Insertion Loss			0.7	1.0	dB
Pass Band Ripple			0.6	0.8	dB
VSWR			1.4	1.6	:1
Rejection	@8-15GHz	50	55		dB
Power Rating	Average			15	W
	Peak			100	W
Impedance		50			Ohms
Weight		0.98 Max.			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

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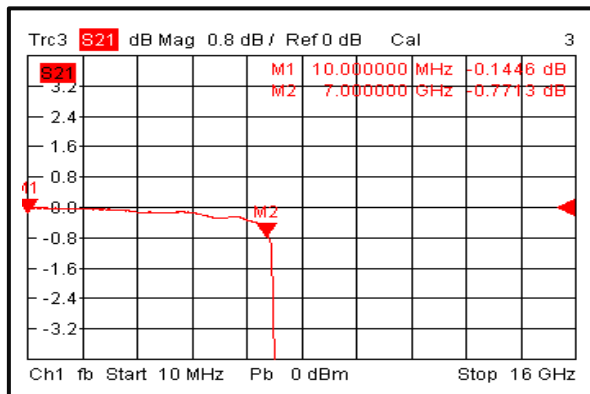


Environmental Specifications and Test Standards

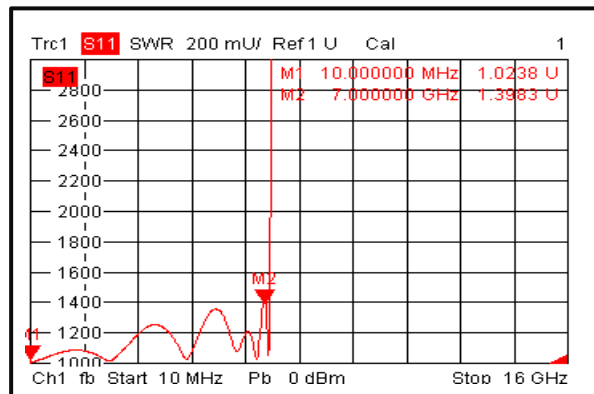
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-55°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72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

Typical Performance Plots

Loss

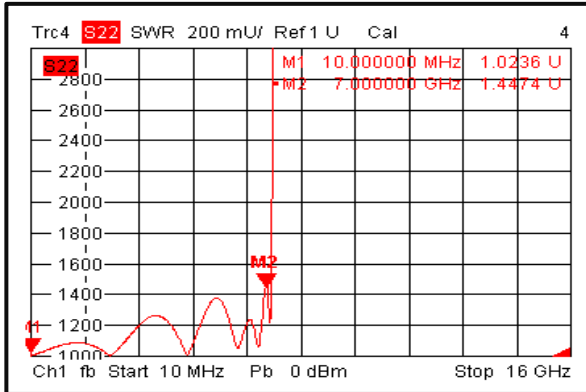


Input VSWR

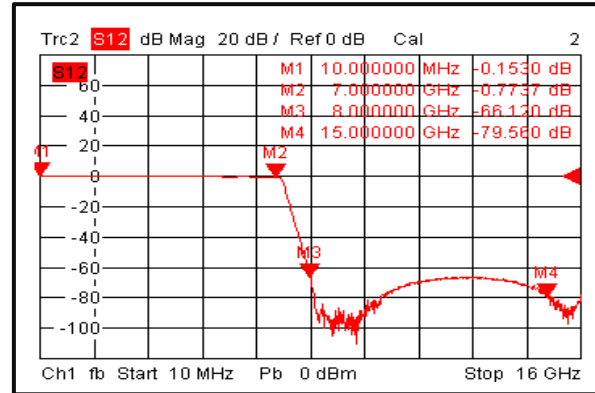




Output VSWR



Rejection

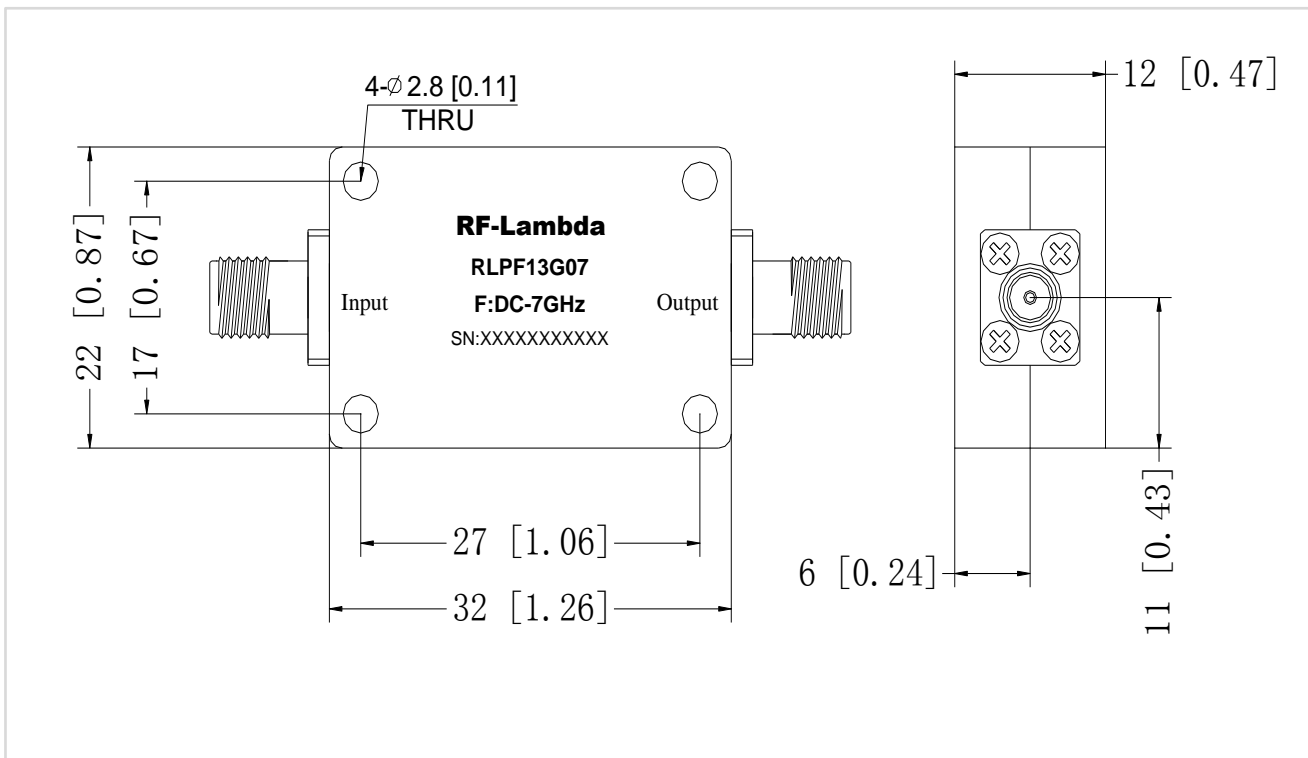


Outline Drawing:

All Dimensions in mm (inches)

Outline Tolerances $\pm 0.5(0.02)$

Mounting Holes Tolerances $\pm 0.2(0.008)$



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