



Tube LOW Pass Filter DC - 6GHz



Features

- Miniaturized Tube low Pass 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		6	GHz
Insertion Loss			0.45	0.5	dB
VSWR			1.2	1.25	: 1
Rejection	@12GHz	60	62		dB
Power Rating	Average			60	W
	Peak			1	KW
Impedance		50			Ohms
Weight		0.72 Max.			Ounces
Input / Output Connectors		SMA-Male / SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

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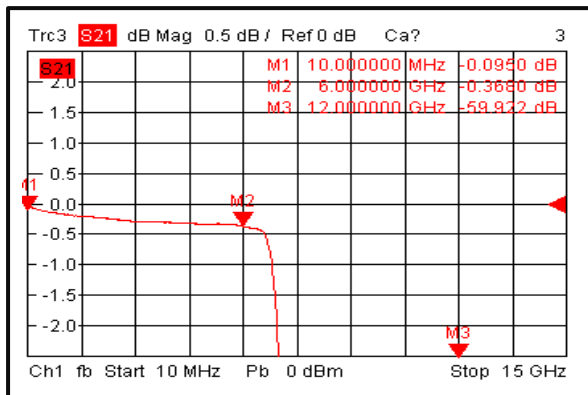
Environmental Specifications and Test Standards

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)

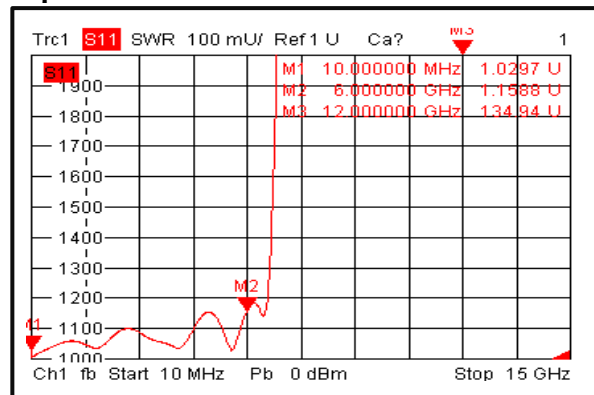
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Typical Performance Plots

Loss

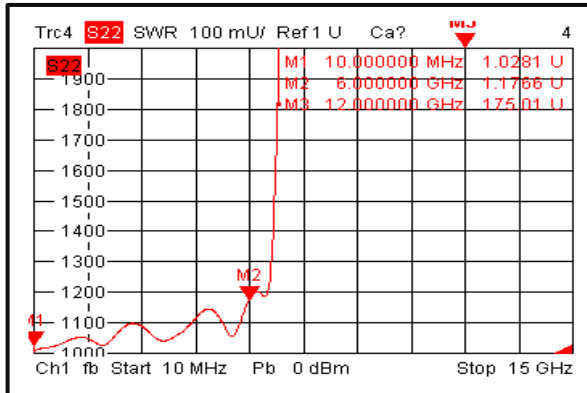


Input VSWR

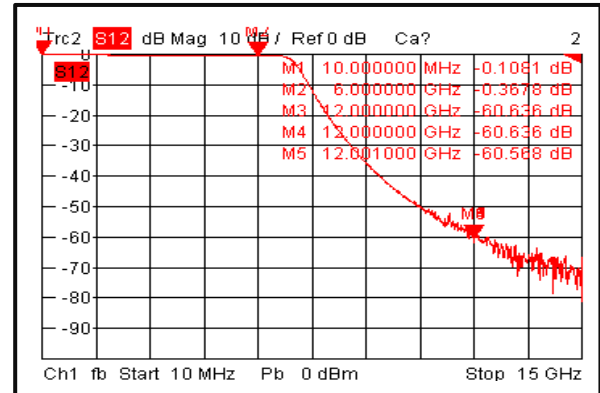




Output VSWR

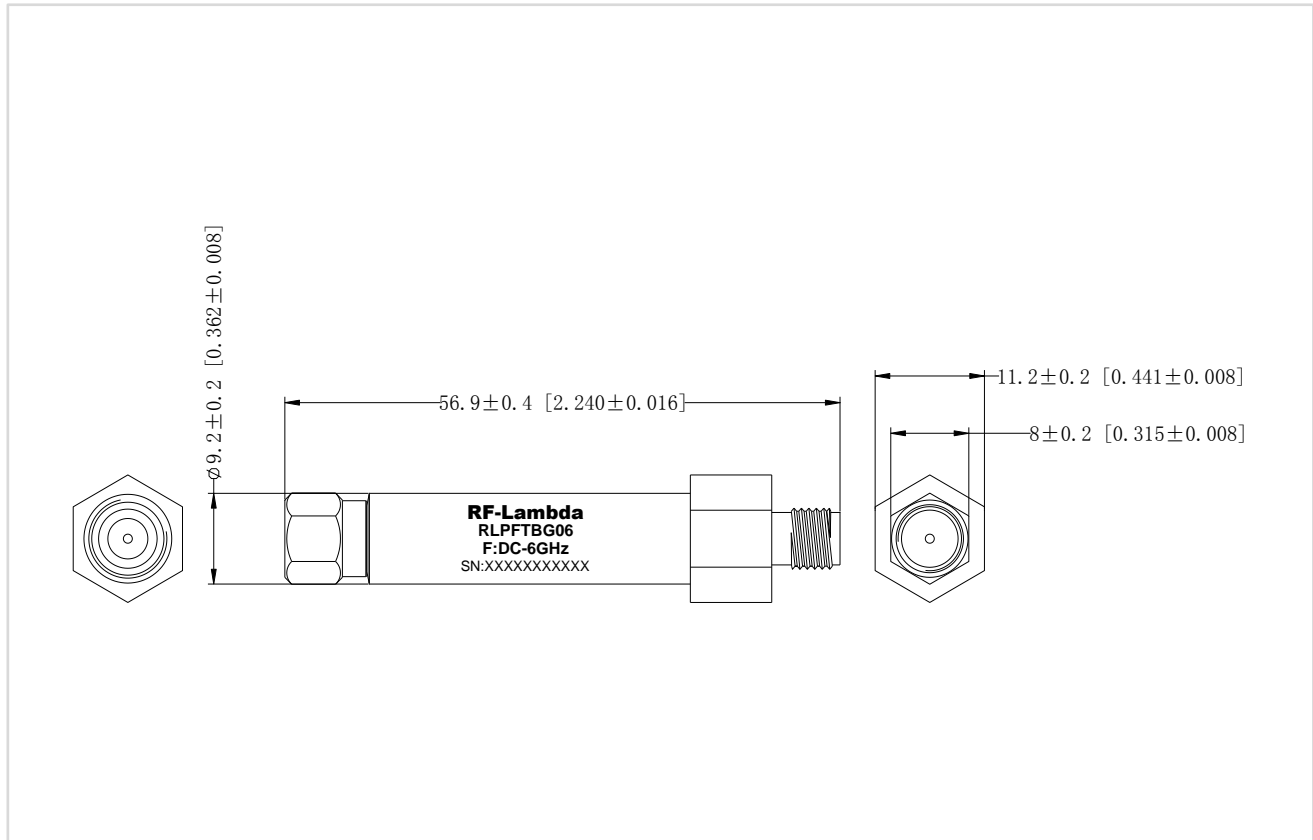


Rejection



Outline Drawing:

All Dimensions in mm [inches]



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