



Coaxial Cavity Band Pass Filter 6.5 -8.5 GHz



Features

- High Rejection
- Low Insertion Loss
- Filter Type: Cavity
- Stable Performance Over Temperature

Typical Applications

- Test and Measurement
- Military and Aerospace
- Wireless Infrastructure

Electrical Specifications, TA = +25°C

Parameter		Min.	Typ.	Max.	Units
Frequency Range		6.5		8.5	GHz
Insertion Loss			0.5	1.0	dB
Pass Band Ripple			0.3	0.5	dB
VSWR			1.3	1.5	:1
Rejection	@DC-6.2GHz	45	55		dB
	@8.8-12GHz	45	52		dB
Power Rating	Average			20	W
	Peak			300	W
Impedance		50			Ohms
Weight		6.35			Ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Black Paint			

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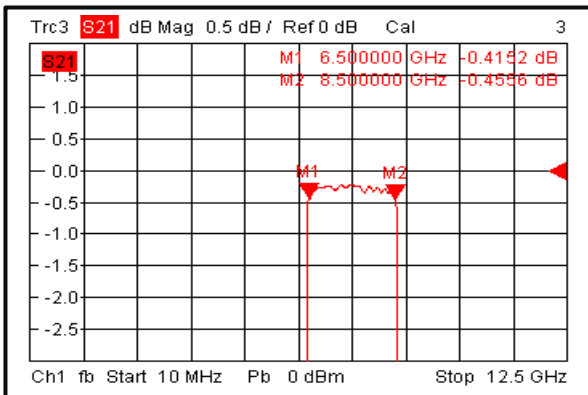


Environmental Specifications and Test Standards

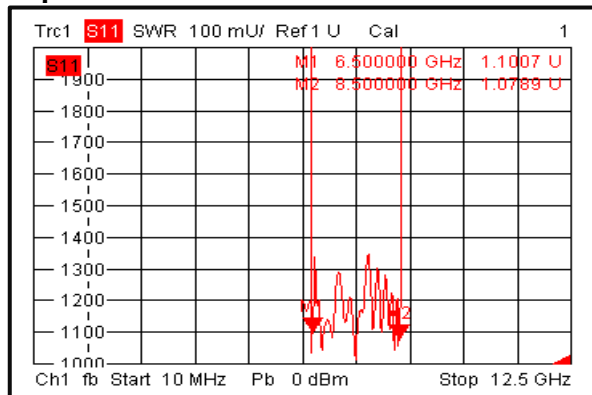
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+65°C
Storage Temperature		-40°C~+85°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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

Insertion Loss

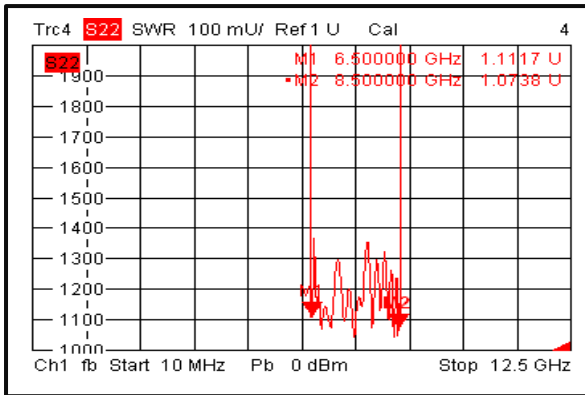


Input VSWR

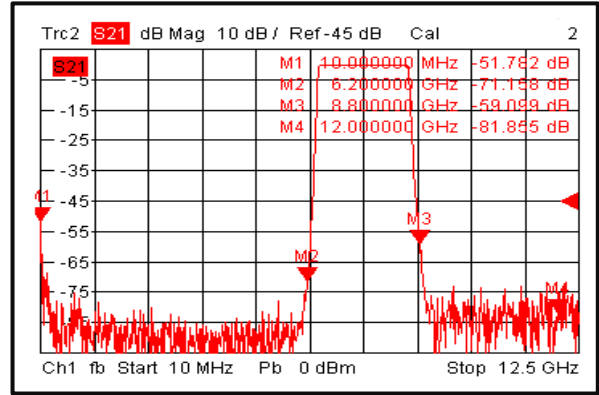




Output VSWR



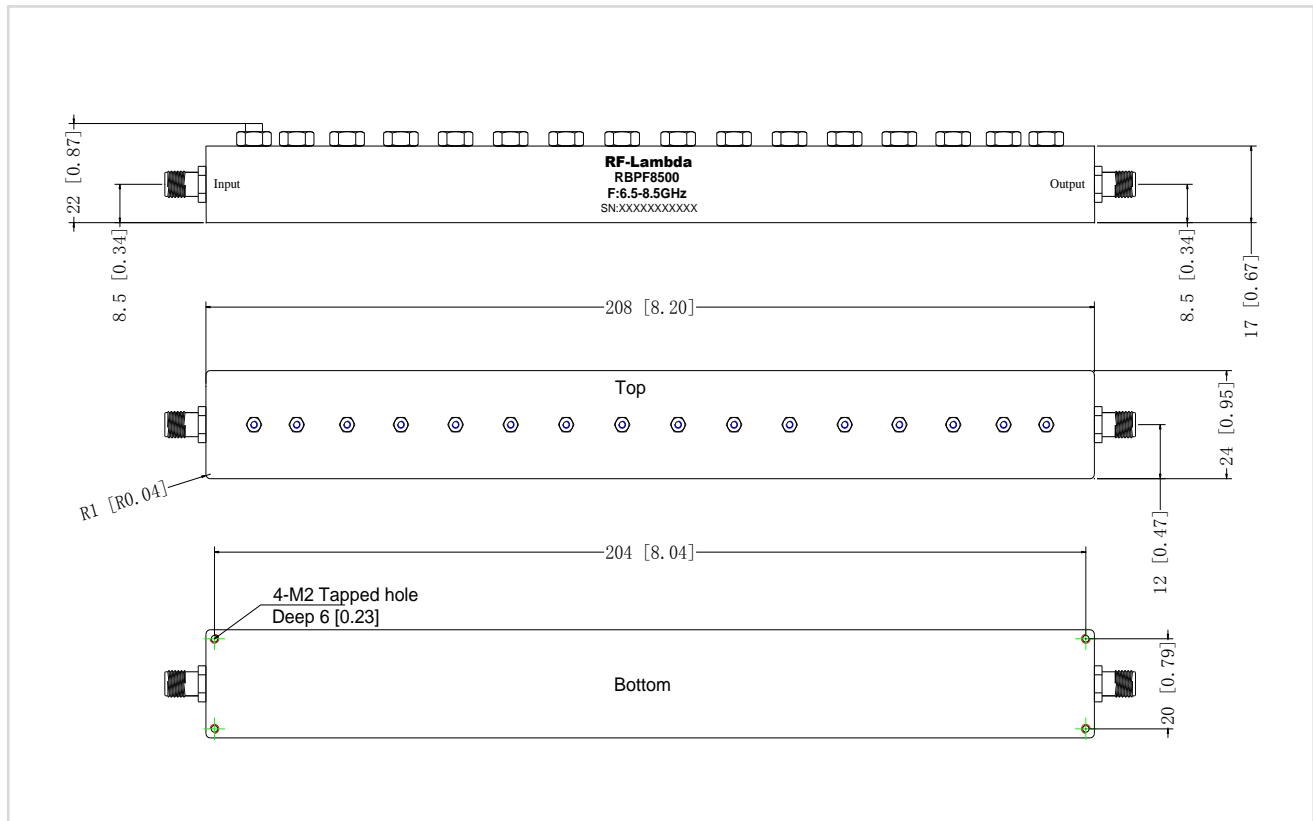
Rejection



Outline Drawing:

All Dimensions in mm (inches)

Outline Tolerances $\pm 0.5(0.02)$



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