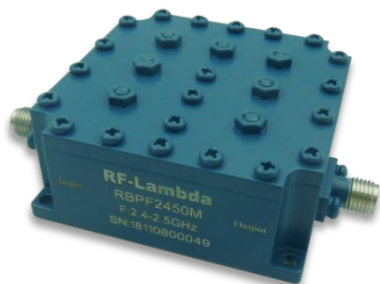


Coaxial Cavity Band Pass Filter 2.4-2.5GHz



Features

- High Rejection
- Low Insertion Loss
- Excellent Temperature Stability
- Compact Size

Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

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

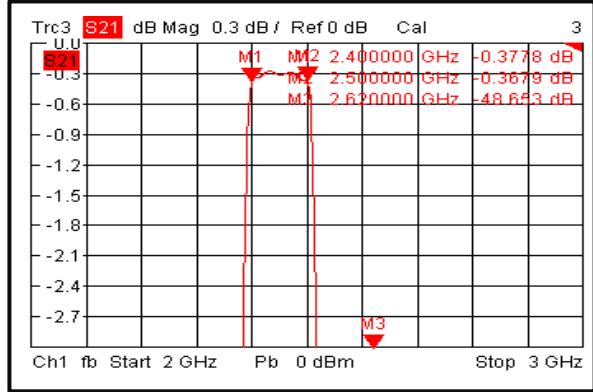
Parameters		Min.	Typ.	Max.	Units
Frequency Range		2.4		2.5	GHz
Insertion Loss			0.35	0.5	dB
Pass Band Ripple			0.2	0.3	dB
VSWR			1.25	1.3	:1
Rejection	@DC-2.32GHz	30	31		dB
	@2.59-2.62GHz	30	40		dB
	@2.62-6GHz	40	42		dB
Power Rating	Average			30	W
	Peak			300	W
Impedance		50			Ohms
Weight		3.52			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

Environmental Specifications and Test Standards

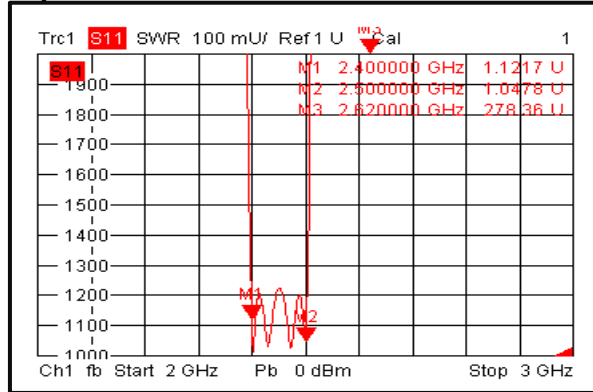
Parameter	Description
Operational Temperature	-20°C~+65°C
Storage Temperature	-40°C~+85°C
Thermal Shock	-20°C~+65°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 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

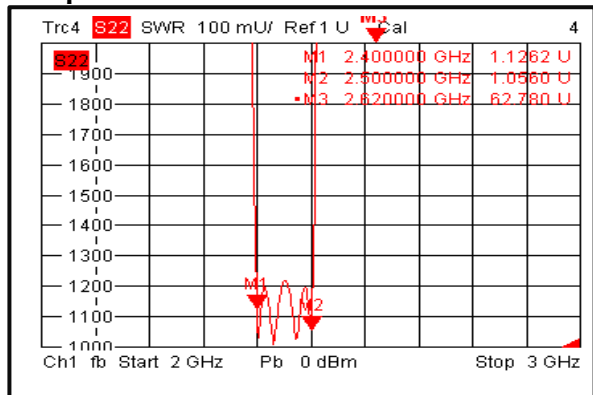
Insertion Loss



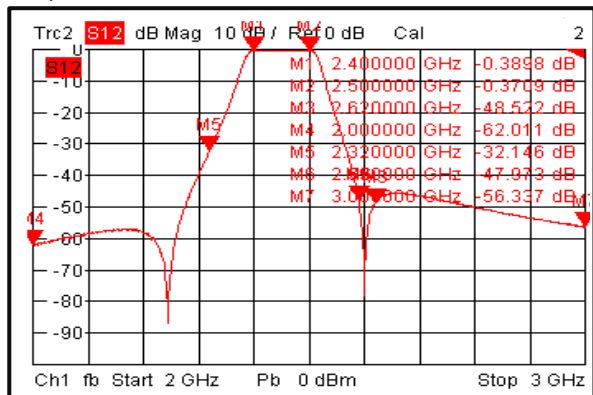
Input VSWR



Output VSWR



Rejection

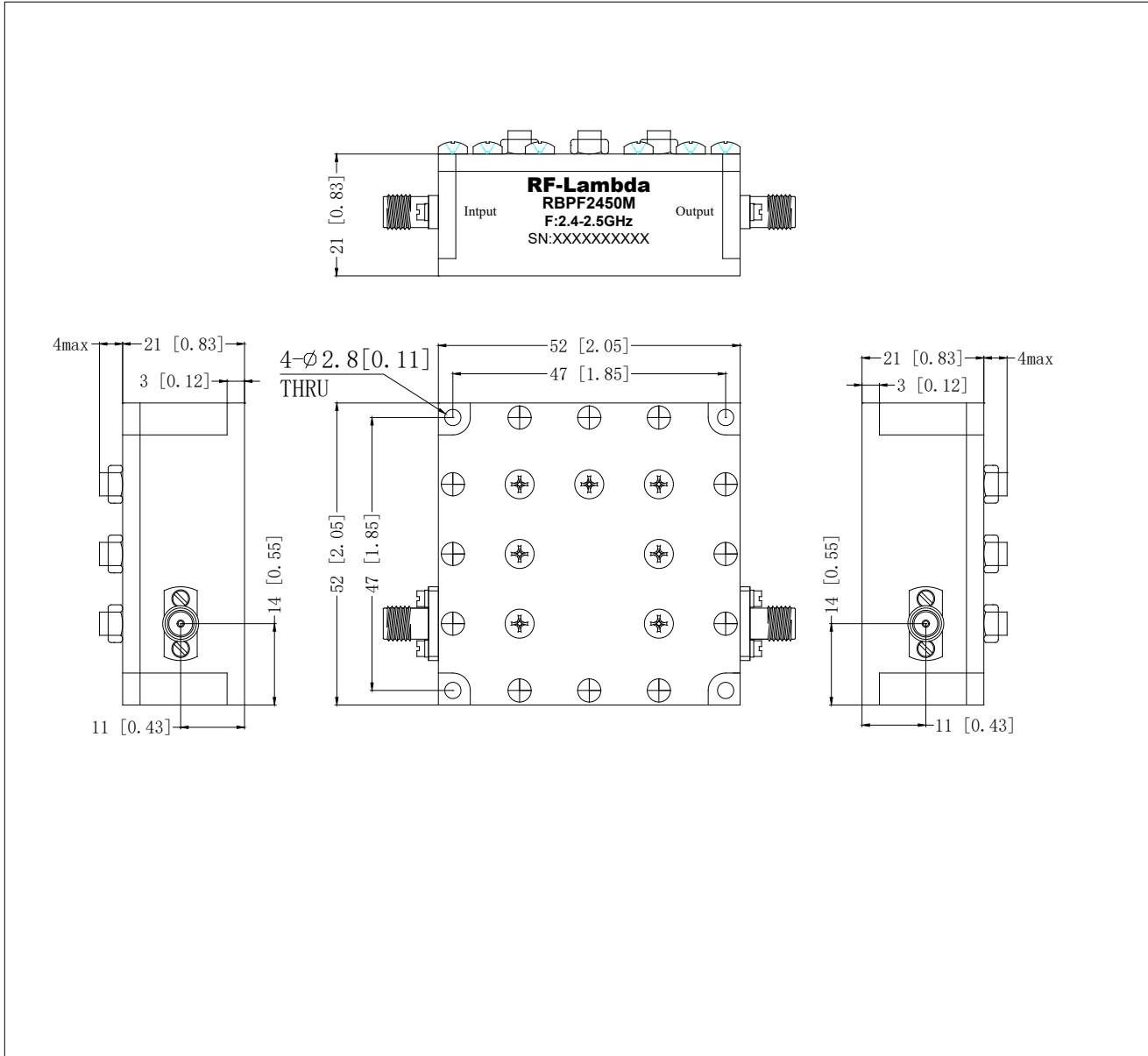


Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.5 [0.02]

Mounting Hole Tolerances ± 0.2 [0.008]



Coaxial Cavity Band Pass Filter 2.4-2.5GHz

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