

Suspended Substrate Stripline Band Pass Filter 8 – 18GHz



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

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

Electrical Specifications, $T_A = 25^\circ C$

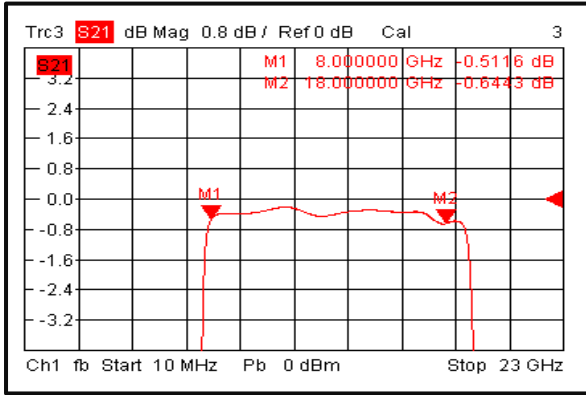
Parameters		Min.	Typ.	Max.	Units
Frequency Range		8		18	GHz
Insertion Loss			0.85	1.0	dB
Pass Band Ripple			0.7	0.8	dB
VSWR			1.6	1.8	: 1
Rejection	@DC-6.8GHz	45	50		dB
	@20.7-22GHz	45	50		dB
Power Rating	Average			15	W
	Peak			100	W
Impedance		50			Ohms
Weight		1.5 Max.			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

Environmental Specifications and Test Standards

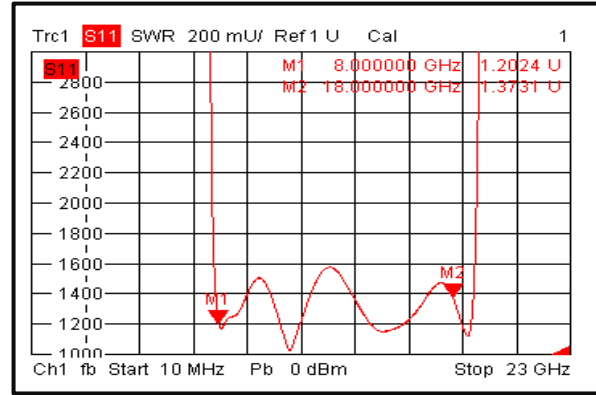
Parameter	Description
Operational Temperature	-55°C~+85°C (Case Temperature)
Storage Temperature	-55°C~+125°C
Thermal Shock	55°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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

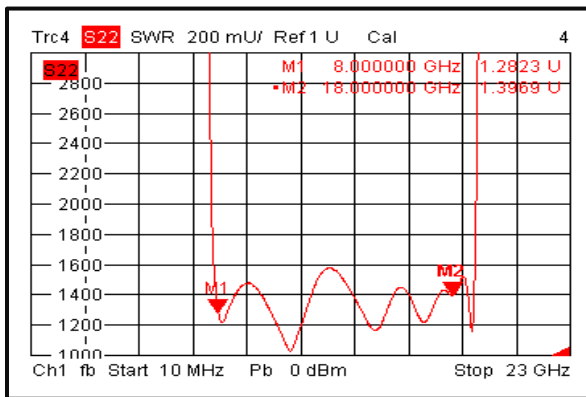
Insertion Loss



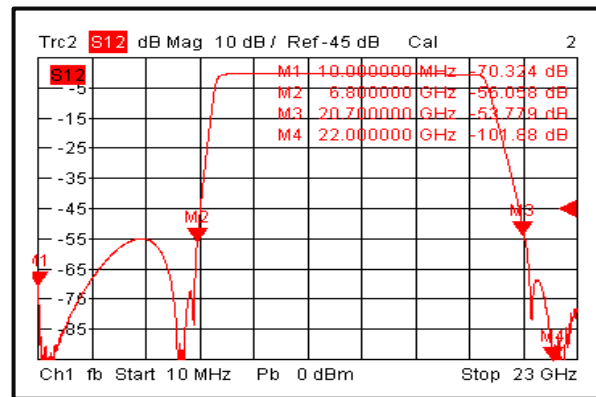
Input VSWR



Output VSWR



Rejection

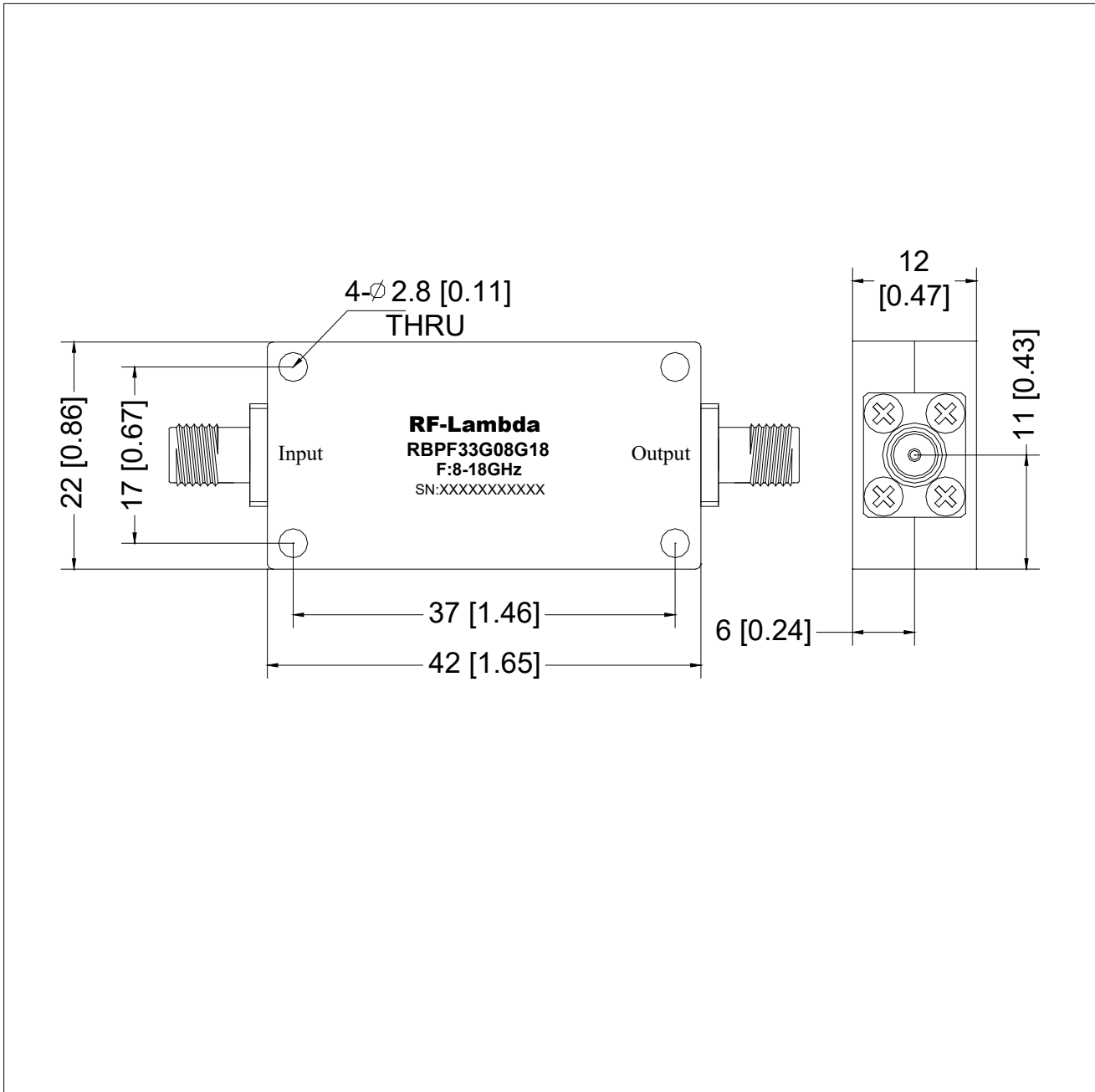


Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.5 [0.02]

Mounting Hole Tolerances ± 0.2 [0.008]



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