



### Suspended Substrate Stripline High Pass Filter 6 - 18GHz



#### Features

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

#### Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	6		18	GHz
Insertion Loss		0.8	1.0	dB
Pass Band Ripple		0.8	1.0	dB
VSWR		1.6	1.8	: 1
Rejection	@DC-5.1GHz	50	55	dB
Power Rating	Average		15	W
	Peak		100	W
Impedance		50		Ohms
Weight		1.06		Ounces
Input / Output Connectors	SMA-Female			
Material	Aluminum			
Finish	Blue Paint			

#### Environmental Specifications and Test Standards

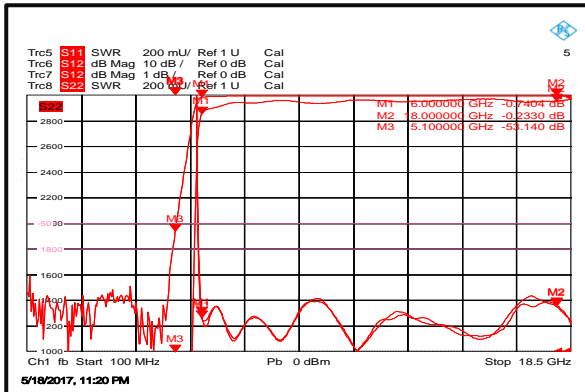
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-55°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72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

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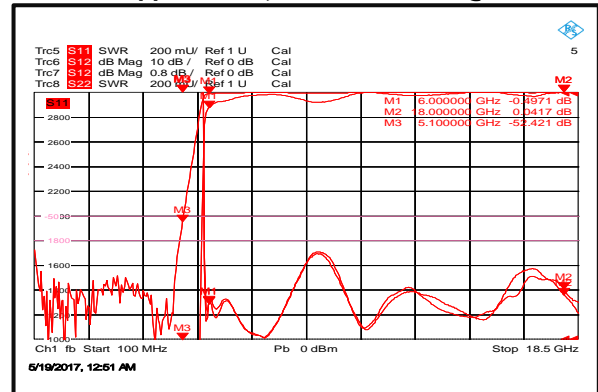


**Typical Performance Plots**

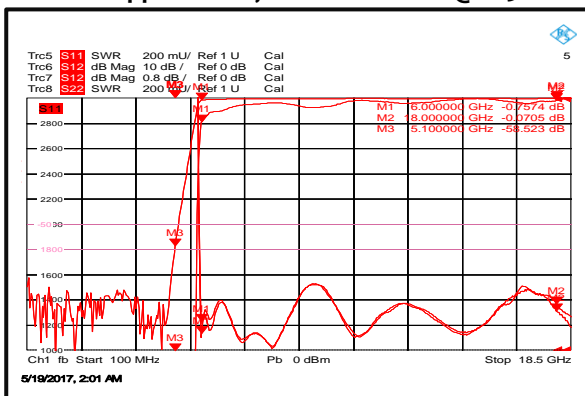
**Loss vs. Ripple vs. Rejection vs. VSWR @+25°C**



**Loss vs. Ripple vs. Rejection vs. VSWR @-45°C**



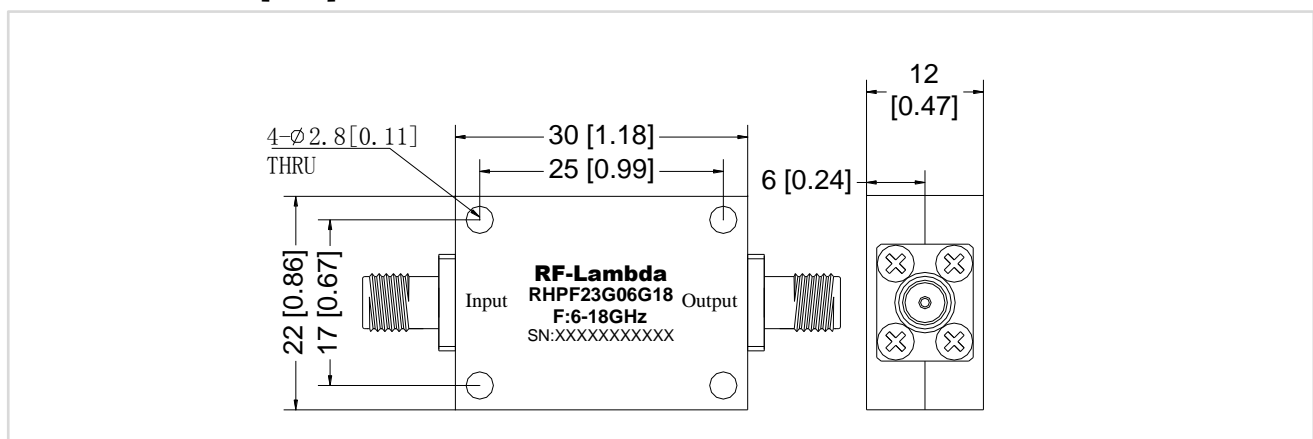
**Loss vs. Ripple vs. Rejection vs. VSWR @+85°C**



**Outline Drawing:**

All Dimensions in mm [inches]

Tolerance ±0.25 [0.01]



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