



### DC-5GHz SSS Low Pass Filter



#### Features

- SSS Filter - Suspended Substrate Strip-line Filter
- Flat frequency response and low insertion loss
- Covers the DC to 18GHz Frequency Range
- Wide bandwidth and 3 dB BW Available from 5-50% ( $f_0$ )
- Designs that Cover up to 40 GHz Also Available
- MIL-E-5400 standard

Electrical Specifications,  $T_A = +25^\circ \text{C}$ , 50 Ohm System,

Parameters		Min.	Typ.	Max.	Units
Frequency Range		DC		5	GHz
Insertion Loss			0.8	1.0	dB
Pass Band Ripple			0.8	1.0	dB
VSWR			1.35	1.5	
Rejection	@5.75-12GHz	50	55		dB
Power Rating	Average			15	W
	Perk			0.1	KW
Operating Temperature		-45		+85	$^\circ\text{C}$
Impedance		50			Ohms
Weight		40			g
Input / Output Connector		SMA-Female			
Material		Aluminum			
Finishing		Gray Paint			

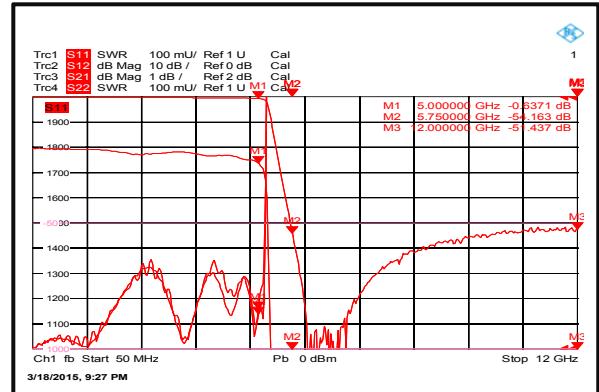


### Environment specifications

Operational Temperature (C°)	-45 to +85
Storage Temperature (C°)	-55 to +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) ( Optional )
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave,3 axis both directions

### Typical performance plots

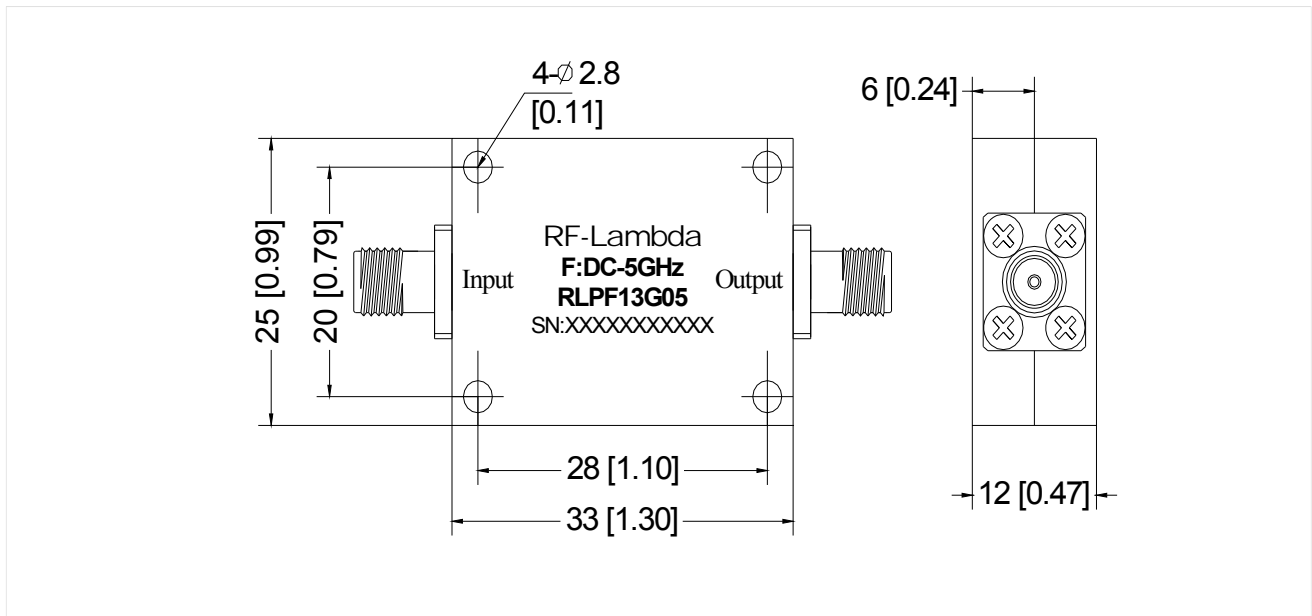
#### Loss VS. Ripple VS. Rejection VS.VSWR



### Outline Drawing:

All Dimensions in mm (inches)

Tolerance  $\pm 0.2$  (0.008)



### Important Notice

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