



### Tube LOW Pass Filter DC - 10GHz



#### Features

- Miniaturized Tube low Pass Filter
- Flat frequency response and low insertion loss
- Covers the 1 GHz to 18 GHz 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

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

Parameters		Min.	Typ.	Max.	Units
Frequency Range		DC		10	GHz
Insertion Loss			0.25	0.4	dB
VSWR			1.22	1.25	: 1
Rejection	@20GHz	60	61		dB
Power Rating	Average			60	W
	Peak			500	W
Impedance		50			Ohms
Weight		0.35			ounces
Input / Output Connectors		SMA-Female / SMA-Male			
Material		Aluminum			
Finish		Blue Paint			



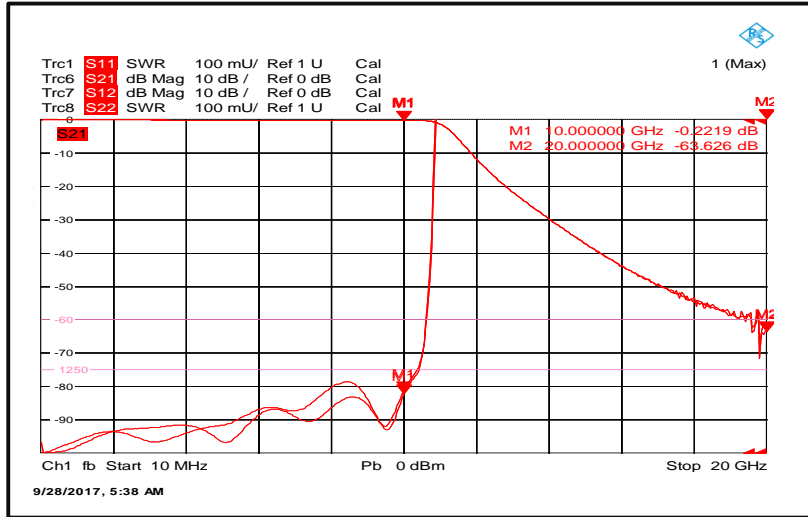
*Environmental Specifications and Test Standards*

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°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)



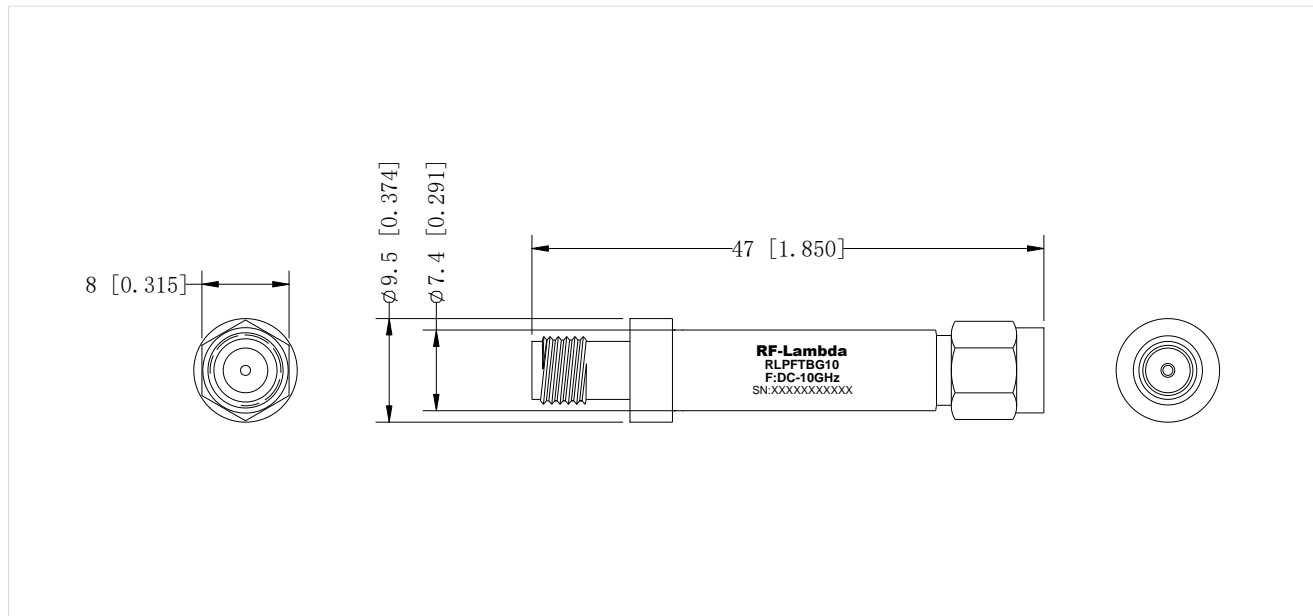
Typical Performance Plots

**Loss VS. Ripple VS. Rejection VS.VSWR**



**Outline Drawing:**

All Dimensions in mm [inches]



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