

Lowpass Filter

- ◆ High Rejection
- ◆ Low Insertion Loss
- ◆ Miniaturization
- ◆ Excellent Reliability
- ◆ Customization available

The HRT-LF(DC/26000)-2150SM is a suspended stripline low pass filter. The pass band is DC-26GHz. It has excellent rejection $\geq 35\text{dB}$ @28-40GHz. It has a maximum insertion loss of 3.0dB. The filter has 2.92-Female and 2.92-Male connectors.



Electrical Specifications

Parameters	Units		Specifications
Pass Band Frequency	MHz		DC-26000
Insertion Loss	dB	Max	3.0
Pass Band Flatness	dB	Max	TBD
Return Loss	dB	Min	11
Group Delay Variation	ns	Max	TBD
Phase Matching	deg	Max	TBD
Rejection	$\geq 35\text{dB}$ @28000-40000MHz		
Power Handling	1W cw max		

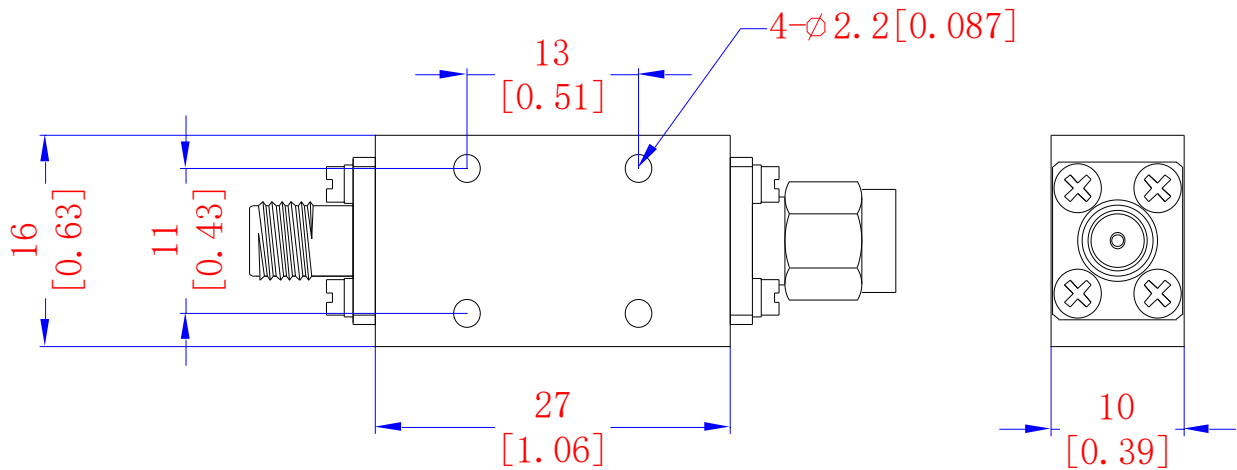
50 ohms Suspended Stripline Low Pass Filter

SN:3248-241121 Version: A0

Mechanical Specifications		Environmental Specification	
Parameter	Specification	Parameter	Specification
Input Connectors	2.92-Female (50Ω)	Operating Temp.	-40°C to +70°C
Output Connectors	2.92-Male (50Ω)	Storage Temp.	-55°C to +85°C
ROHS	Yes	Environment Class	TBD
Material	Aluminum (6061)	Altitude	30,000 ft.
Weight(Kg)	TBD		(Epoxy Sealed Controlled environment)
Surface Finish	Black Painted	Humidity	95%RH at 40°C
Shock	20G for 11msec half sine wave,3 axis both directions		
Note			

Outline Drawing:

All Dimensions in mm (inches)

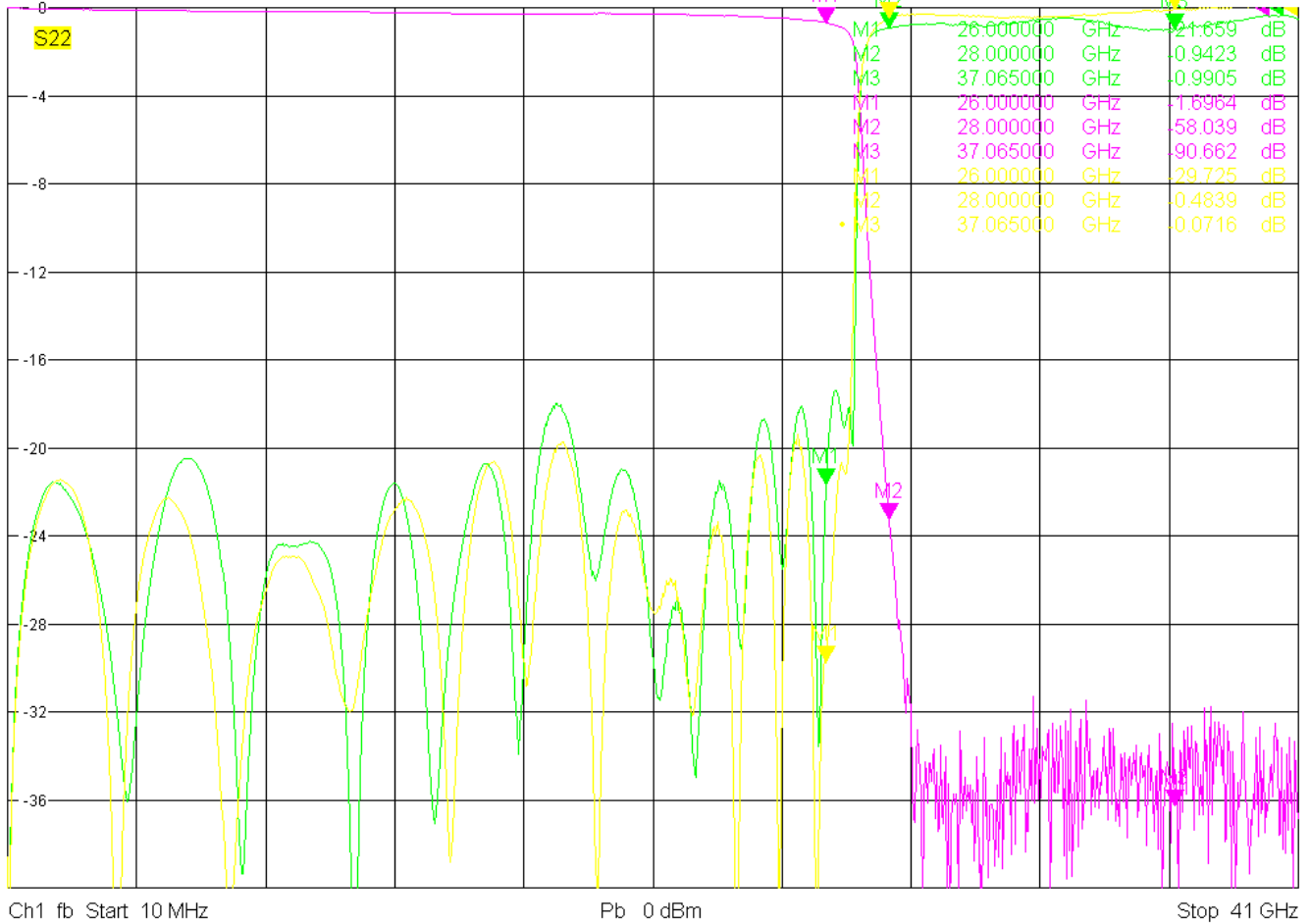
 Outline Tolerances $\pm 0.3(0.012)$


Simulation Plot

Trc1 **S11** dB Mag 4 dB / Ref 0 dB
Trc3 **S22** dB Mag 4 dB / Ref 0 dB

Trc2 **S21** dB Mag 10 dB / Ref 0 dB

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