

SYTFL050XF9S

5.0 GHz Surface Mount Lowpass Filter

Min

15.0

35.0

6.0

5.59 x 4.57 x 3.00 mm

Тур.

1.0

20.0

45.0

Max

2.5

12.5

Frequency Range

(GHz)

DC - 4.8

6.0 - 16.0

DC - 4.8

*Electrical specifications based on typical probed performance at room temperature. Insertion loss

**Power rating assumes the component will be mounted to a PCB with good thermally conducting

ground vias as outlined in the recommended PCB layout that are connected to an adequate heat

Description

Yantel's surface mount catalog low pass filters utilize Yantel's high dielectric ceramic materials to provide small size and minimal performance variation over temperature. The catalog LPF's are offered with the same footprint in a variety of frequency bands to provide a drop in solution with highly repeatable performance.

Features

- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

	0 -	
(-10 -	
	-20 -	
le (dE	-30 -	
ituc	-40 -	
Magnitude (dB)	-50 -	
—	-60 -	
		0 2 4 6 8 10 12 14 16 18 Frequency (GHz)

Specifications*

Parameter

Insertion Loss

(dB)

Return Loss

(dB)

High Side

Rejection (dB) CW Input

Power** (W)

Size (L x W x H)

shall vary ±0.5dB over temperature.

sink. Max power is based on 125°C base temperature.

Typical Measured Performance

*Typical de-embedded measured performance mounted on a connectorized test fixture. DEB is 0.254mm RO4350B with 50.00hm CPW ground traces going into the ports at room temperature.

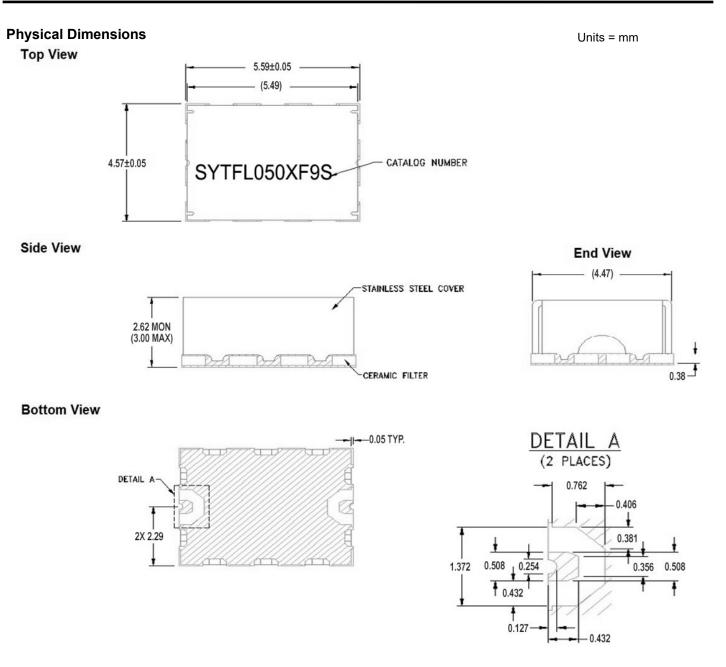
Yantel Corporation Add: No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China Tel: 86-755-8355-1886 Fax: 86-755-8355-2533 For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

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Notes :

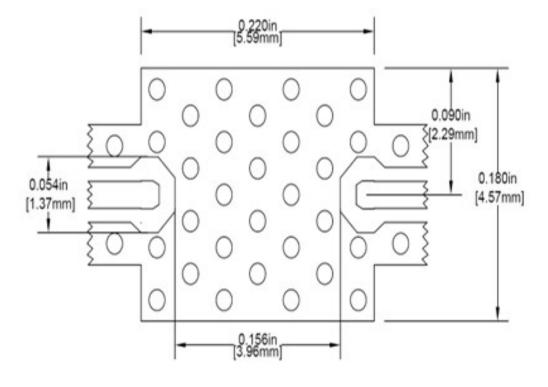
- 1. Termination Finish:
 - ENIG: 76-152 µm Au over 1270 µm Ni
- 2. Maximum Assembly Process Temperature: 250°C
- 3.Dimension tolerance: ±0.05



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Recommended PCB Layout



Unit = inches [mm]

Note:

- \bullet 50 $\!\Omega$ trace dimensions are application specific.
- Ensure adequate grounding beneath the part.