

## SYTFB024RF2S

2.40GHz Surface Mount Bandpass Filter

**Frequency Range** 

(GHz)

1.97 - 3.05

DC - 1.1

3.8 - 4.75

\*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

Min

10.0

40.0

40.0

7.5

12.70 x 6.35 x 2.87 mm

Тур.

1.6

15.0

45.0

50.0

Max

3.0

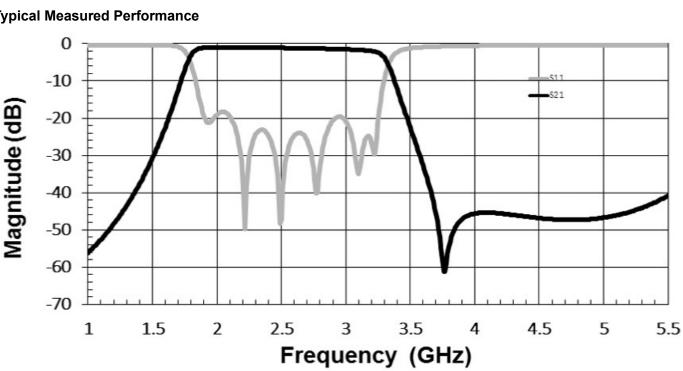
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## Description

Yantel's surface mount catalog bandpass filters utilize Yantel's low loss temperature stable materials which offer small size and minimal performance variation over temperature. The catalog BPF's are offered in a variety of frequency bands, which offers 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



Specifications\*

Parameter

**Insertion Loss** 

(dB)

**Return Loss** 

(dB)

Low Side

Rejection (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.

 $\theta_{IC}$ 

## **Typical Measured Performance**

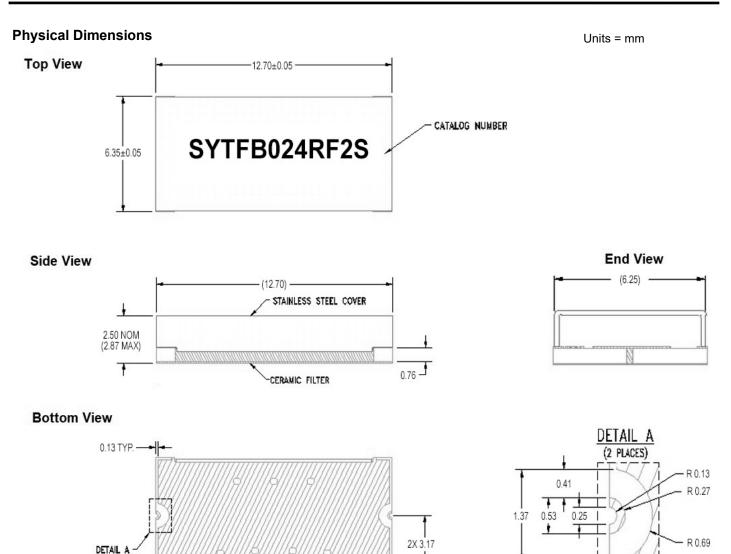
\*Typical de-embedded measured performance mounted on a connectorized test fixture. DEB is 0.254mm RO4350B with 50.00hm CPW ground traces going into the ports at room temperature

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### Notes :

1. Termination Finish:

ENIG: 76-152 µm Au over 1270 µm Ni

2. Maximum Assembly Process Temperature: 250°C

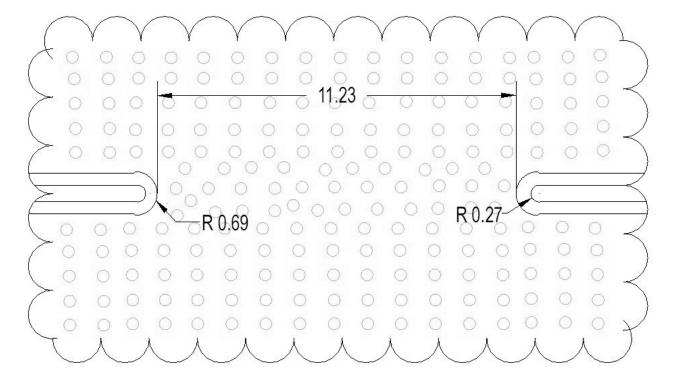
3.Dimension tolerance: ±0.05



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## **Recommended PCB Layout**



### Notes :

Unit = mm

- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.