

# SYTFB105MB5S

10.6GHz Surface Mount Bandpass Filter

**Frequency Range** 

(GHz)

10.0 - 11.2

DC - 8.0

13.0 - 23.5

\*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

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

Min

10.0

45.0

40.0

7.5

11.43 x 5.08 x 2.62 mm

Тур.

1.75

12.0

50.0

50.0

Max

2.0

10

## 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

0		$\overline{}$		
-10		Ant		
-20		-/-\/\/		
-30		/		
-40		/ 11		
-50		/ 1		$\Delta \rightarrow \Delta \Delta$
-60			- MAN	
-70			Ma. A	
-80	5	10	15	20

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)

 $\theta_{IC}$ 

# **Typical Measured Performance**

Frequency (GHz)

\*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.

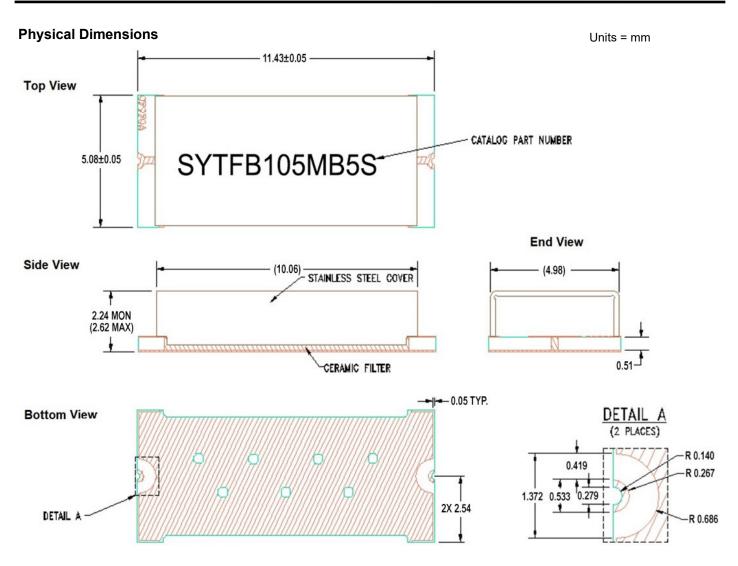
#### Yantel Corporation

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 : <u>www.yantel-corp.com</u>



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### Notes :

1. Termination Finish:

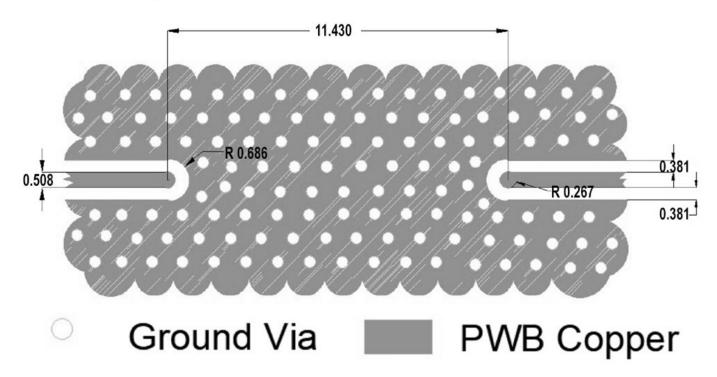
ENIG: 76-152 µm Au over 1270 µm Ni

- 2. Maximum Assembly Process Temperature: 250°C
- 3.Dimension tolerance: ±0.05



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# Recommended PCB Layout



Unit = mm

Note:

- $50\Omega$  trace dimensions are application specific.
- 50 $\Omega$  trace dimensions are designed for 0.254mm thick R04350B Rogers Board.
- Ensure adequate grounding beneath the part.