

# SYTFB043QB4S

4.5GHz Surface Mount Bandpass Filter

**Frequency Range** 

(GHz)

3.4 - 5.6

DC - 2.6

6.4 - 11.0

\*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

70.0

60.0

15

0.775 x 0.320 x 0.098 in

19.69 x 8.13 x 2.49 mm

Тур.

6.5

10.0

70.0

70.0

Max

6.5

15

### 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

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-2	.0			W	$M_{\Lambda\Lambda}$						
-30	0					AH					
-4	0					. 1					
-5	0										
-6	0										/
-7	0									WW	
-8		hhi				- NL	أفاقتل طرر الأر		1.11.		
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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)

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### **Typical Me**

\*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

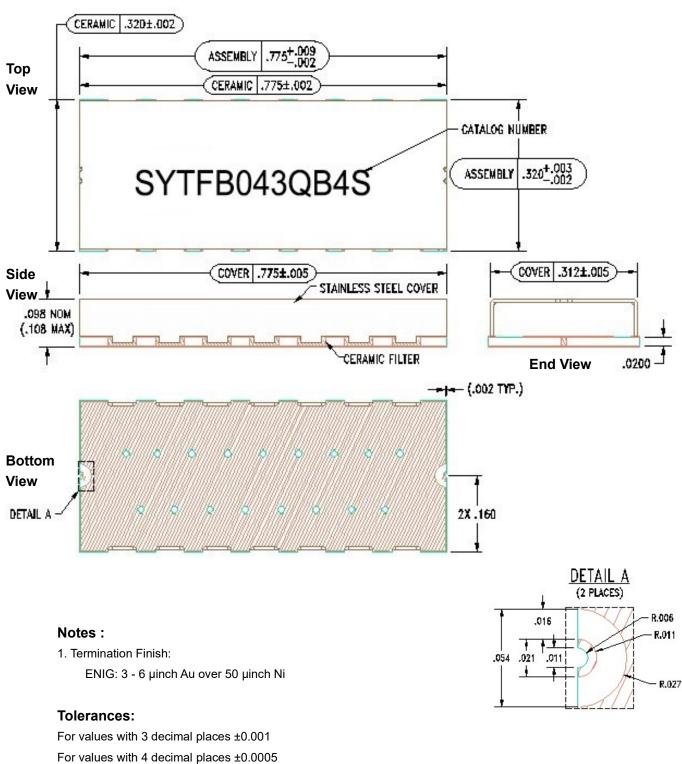


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### **Physical Dimensions**

Units = inches



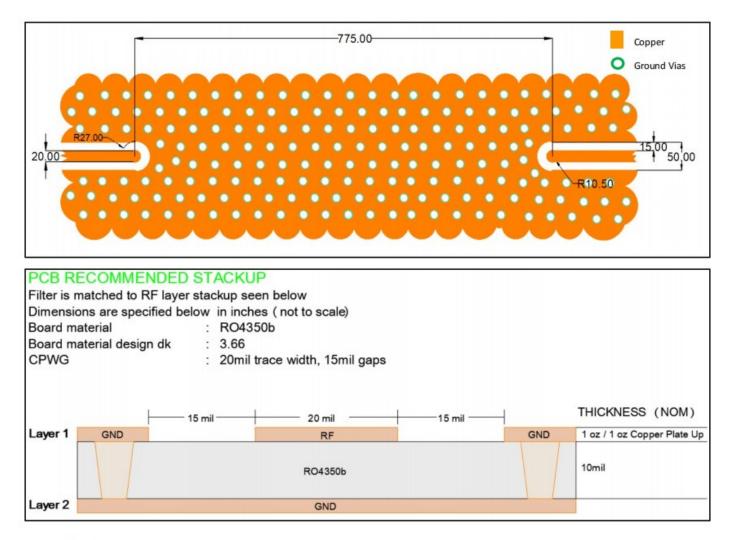


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### Recommended PCB Layout

Units = mils



## Note:

- 50Ω trace dimensions are application specific.
- 50Ω trace dimensions are designed for 10mil thick R04350B Rogers Board.
- · Ensure adequate grounding beneath the part.