

SYTFB042RC3S

4.5GHz Surface Mount Bandpass Filter

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

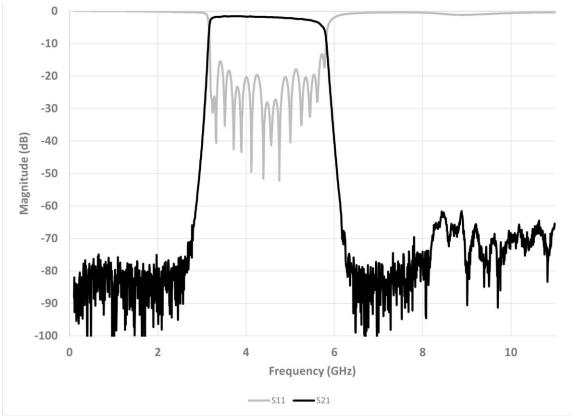
- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

Specifications*

Parameter	Frequency Range (GHz)	Min	Тур.	Max
Insertion Loss (dB)	3.3 - 5.7		6.5	6.5
Return Loss (dB)		10.0	10.0	
Low Side Rejection (dB)	DC - 2.875	40.0	45.0	
High Side Rejection (dB)	6.25 - 11.0	40.0	45.0	
CW Input Power** (W)				10
$\theta_{JC} \left(\frac{^{\circ}C}{W} \right)$	7.5			
Size (L x W x H)	0.900 x 0.320 x 0.158 in 22.86 x 8.13 x 4.01 mm			

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

Typical Measured Performance

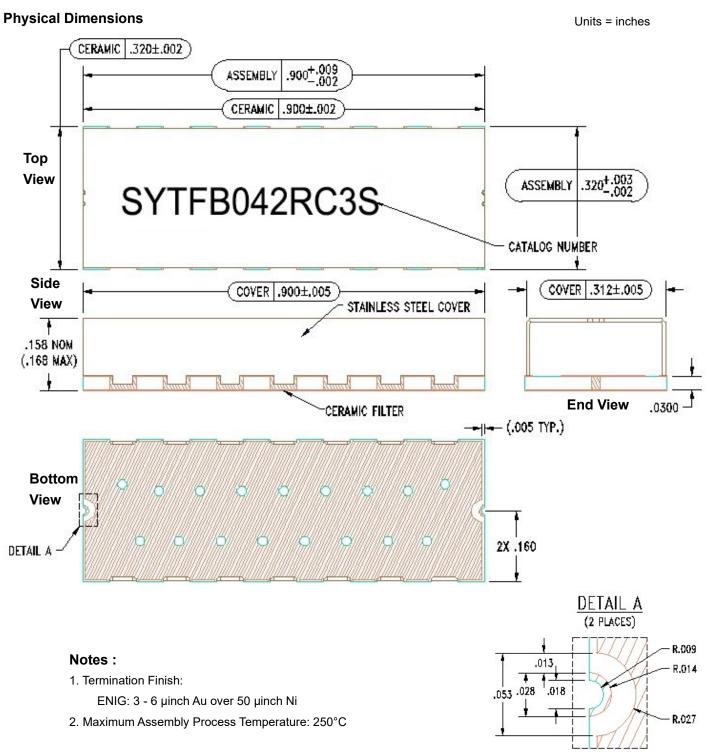


^{*}Typical de-embedded measured performance mounted on a connectorized test fixture. DEB is 0.254mm RO4350B with 50.00hm CPW ground traces going into the ports at room temperature.

^{**}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.

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Tolerances:

For values with 3 decimal places ±0.001 For values with 4 decimal places ±0.0005

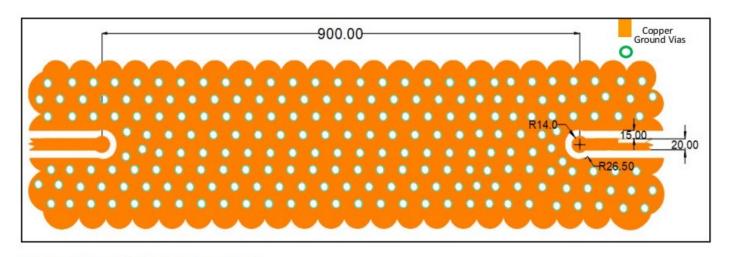


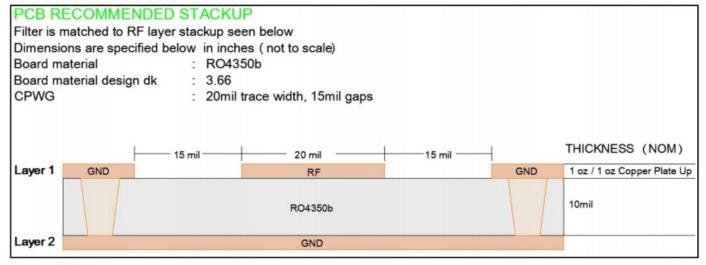
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Recommended PCB Layout

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.