

## SYTFB114MB1S 11.429GHz 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.

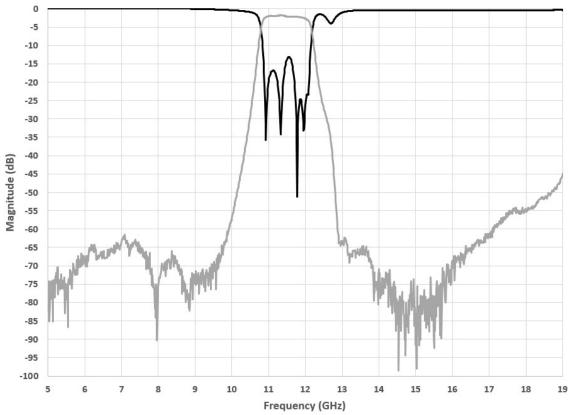
#### Features

- 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

	Parameter	Frequency Range (GHz)	Min	Тур.	Мах
	Insertion Loss (dB)	10.86 -12.0		3.0	3.75
	Return Loss (dB)		10	15	12
	Low Side Rejection (dB)	DC – 10	40	45	
	High Side Rejection (dB)	12.9 - 19.0	40	45	
	CW Input Power** (W)				5
	$\theta_{JC} \left(\frac{^{\circ}C}{W}\right)$	15			
	Size (L x W x H)	0.400 x 0.200 x 0.093 in 10.16 x 5.08 x 2.37 mm			

\*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.



Specifications\*

## **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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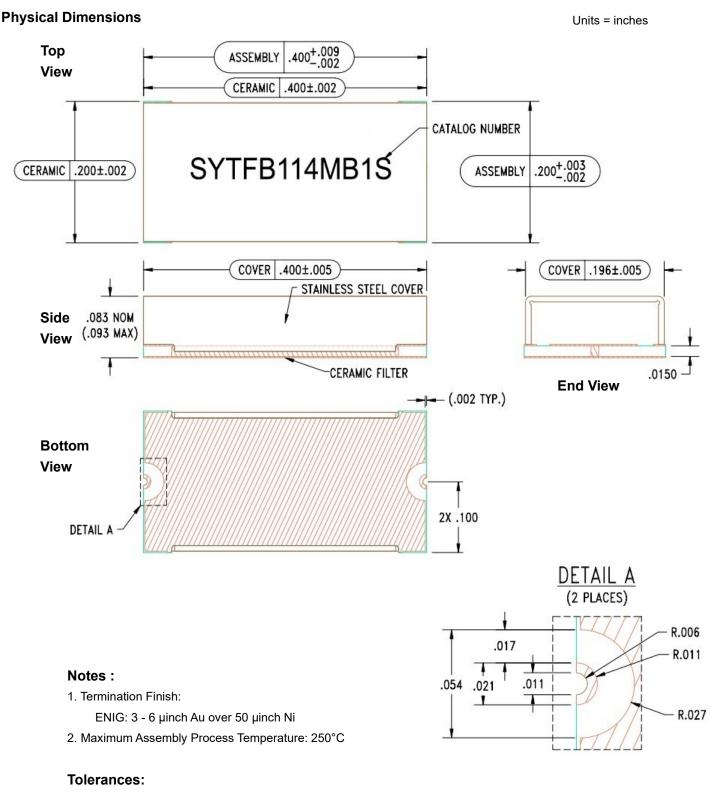
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 For detailed performance specs & shopping online see Yantel web site : <a href="http://www.yantel-corp.com">www.yantel-corp.com</a>



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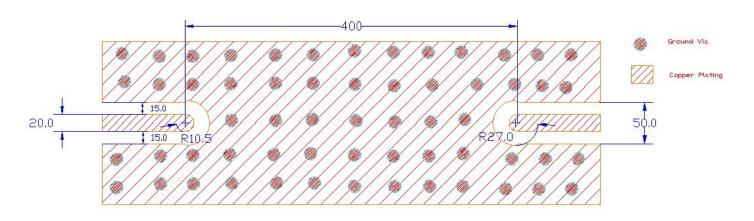
For values with 3 decimal places ±0.001

For values with 4 decimal places ±0.0005



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Recommended PCB Layout



Unit =mils

### Note:

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