

## SYTFB144MB1S

14.5GHz Surface Mount Bandpass Filter

**Frequency Range** 

(GHz)

14.0 - 15.0

DC - 12.25

16.25 - 22.0

Min

12.0

40.0

40.0

Тур.

2.4

15.0

45.0

45.0

Max

2.5

5

#### 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

Aagnitude (dB)

- Fully Shielded Component
- Solder Surface Mount Package
- Moisture
- Frequence
- Operatin
- Character

Surface Mount Package			θ	$\theta_{JC} \left( \frac{C}{W} \right)$		15			
e Sensitiv	vity Level: MSL1								
ncy Stable over Temperature ng & Storage Temp: -55°C to +125°C teristic Impedance: 50Ω			Size	Size (L x W x H)		10.16 x 5.08 x 2.50 mm			
			б°С	*Electrical encoifications have					
				*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 hea sink. Max power is based on 125°C base temperature.					
Measu	red Performa	ance							
0					$\sim$				
-10					X X				
-20					hM				
-30				- /	$\mathcal{V}$				1
-40				/					
-50	•						-		prend the
-60	h al	Willie I.		N		٦.	A.	$\sim$	
-70	I'WI'		TRUE IN	1			<b>.</b>	Y	
-80	"	r					ľ		
4	6	8	10	12	14	16	18	20	22

Specifications\*

Parameter

**Insertion Loss** 

(dB)

**Return Loss** 

(dB)

Low Side

Rejection (dB) **High Side** 

Rejection (dB)

**CW** Input

Power\*\* (W)

°C) 1

## Typical

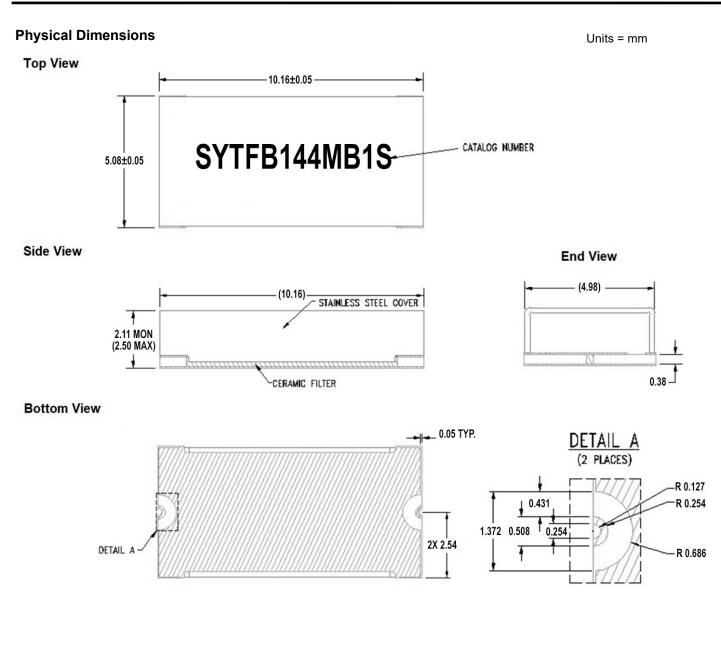
\*Typical de-embedded measured performance mounted on a connectorized test fixture. DEB is 0.254mm RO4350B with 50.00hm CPW ground traces going into the ports at room temperature.

Frequency (GHz)



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## Notes :

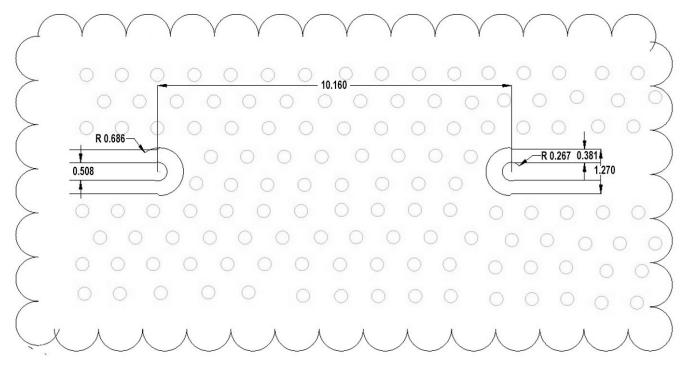
- 1. Termination Finish:
  - ENIG: 76-152 µm Au over 1270 µm Ni
- 2. Maximum Assembly Process Temperature: 250°C
- 3.Dimension tolerance: ±0.05



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## **Recommended PCB Layout**



Unit = mm

## Note:

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