

SYTFB120MB1S

Frequency Range

(GHz)

11.5 - 12.5

DC - 10.6

12GHz Surface Mount Bandpass Filter

Min

10

30

Тур.

2.0

14

45

Max

3.0

18

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

-10

-20

-30

-40

-50

-60

-70

-80

-90

6

7

8

9

10

11

Magnitude (dB)

	High Side Rejection (dB)	13.2 - 19.5	30	45	
onent	CW Input Power** (W)				5
t Package evel: MSL1	$\theta_{JC} \left(\frac{^{\circ}C}{W} \right)$	15 13.33 x 5.71 x 2.62 mm			
er Temperature Temp: -55°C to +125°C	Size (L x W x H)				
ance: 50Ω	*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.				
Performance					
+	mm -				
	0 0				

Specifications*

Parameter

Insertion Loss

(dB)

Return Loss

(dB)

Low Side

Rejection (dB)

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.

13

Frequency (GHz)

14

15

16

17

18

19

20

12

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



SYTFB120MB1S

12GHz Surface Mount Bandpass Filter

Physical Dimensions

Units = mm

Top View



Side View







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



SYTFB120MB1S

12GHz Surface Mount Bandpass Filter

Recommended PCB Layout



Unit = mm

Note:

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