

SYTFB1500G0S

14.5GHz Surface Mount Bandpass Filter

Frequency Range

(GHz)

Min

Тур.

2.25

Max

2.5

Description

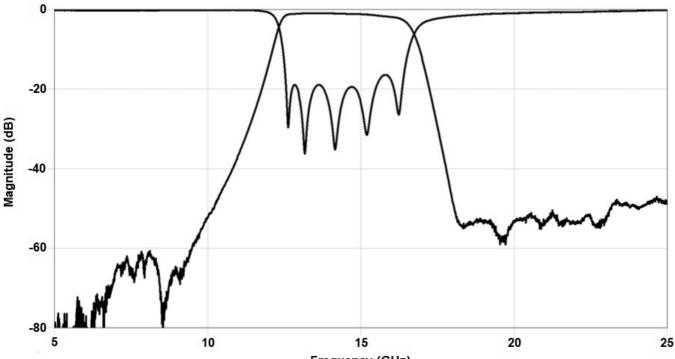
Yantel's surface mount catalog bandpass filters utilize Yantel's low loss temperature stable materials which offer small size and minimal performance variation over temperature. The catalog BPF's are offered in a variety o frequency bands, which offers a drop in solution with highly repeatable performance.

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

		13.0 - 16.0				
:	Return Loss (dB)	13.0 - 10.0	12	15		
	Low Side Rejection (dB)	DC – 10.5	40	45		
	High Side Rejection (dB)	18.0 - 25.0	40	45		
	CW Input Power** (W)				5	
	$\theta_{JC} \left(\frac{^{\circ}C}{W} \right)$	15				
	Size (L x W x H)	0.375 x 0.140 x 0.088 in 9.53 x 3.56 x 2.24 mm				
	*Electrical specifications based on typical probed performance at room temperature. Insertion los shall vary ±0.5dB over temperature. **Power rating assumes the component will be mounted to a PCB with good thermally conductin 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.



Specifications*

Parameter

Insertion Loss

(dB)

Frequency (GHz)

*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

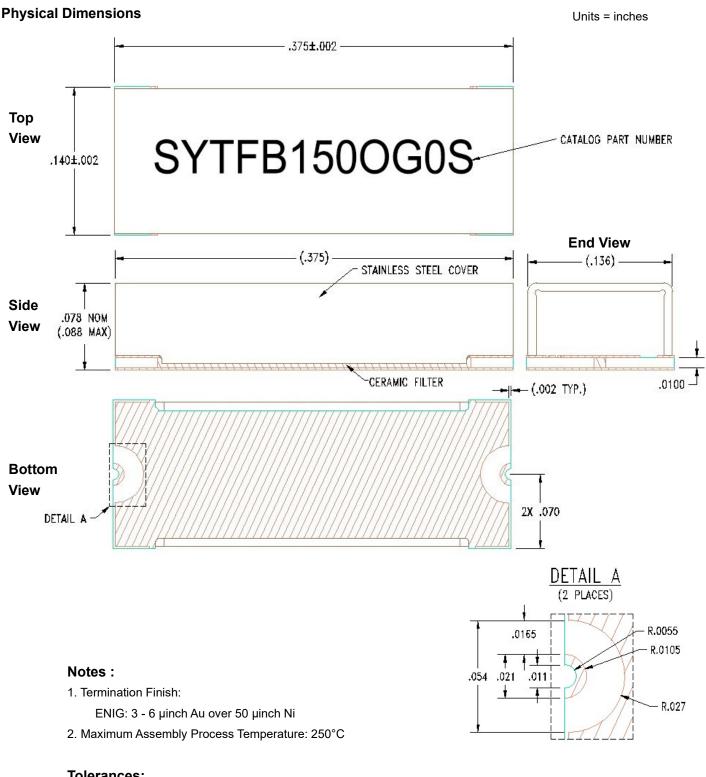
Add: No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China Tel: 86-755-8355-1886 Fax: 86-755-8355-2533 For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Typical Measured Performance



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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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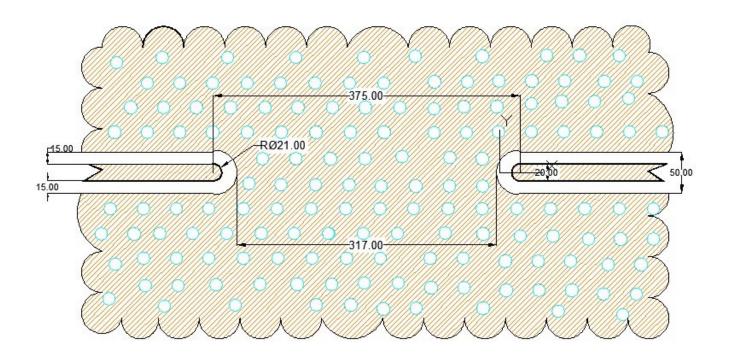


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Recommended PCB Layout

Unit =mils





PWB TOP METAL

PWB DRILL

PCB RECOMMENDED STACKUP

Filter is matched to RF layer stackup seen below						
Dimensions are specified below in inches (not to scale)						
Board material	:	RO4350b				
Board material design dk	:	3.66				
CPWG	:	20mil trace width, 15mil gaps				

