

### 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

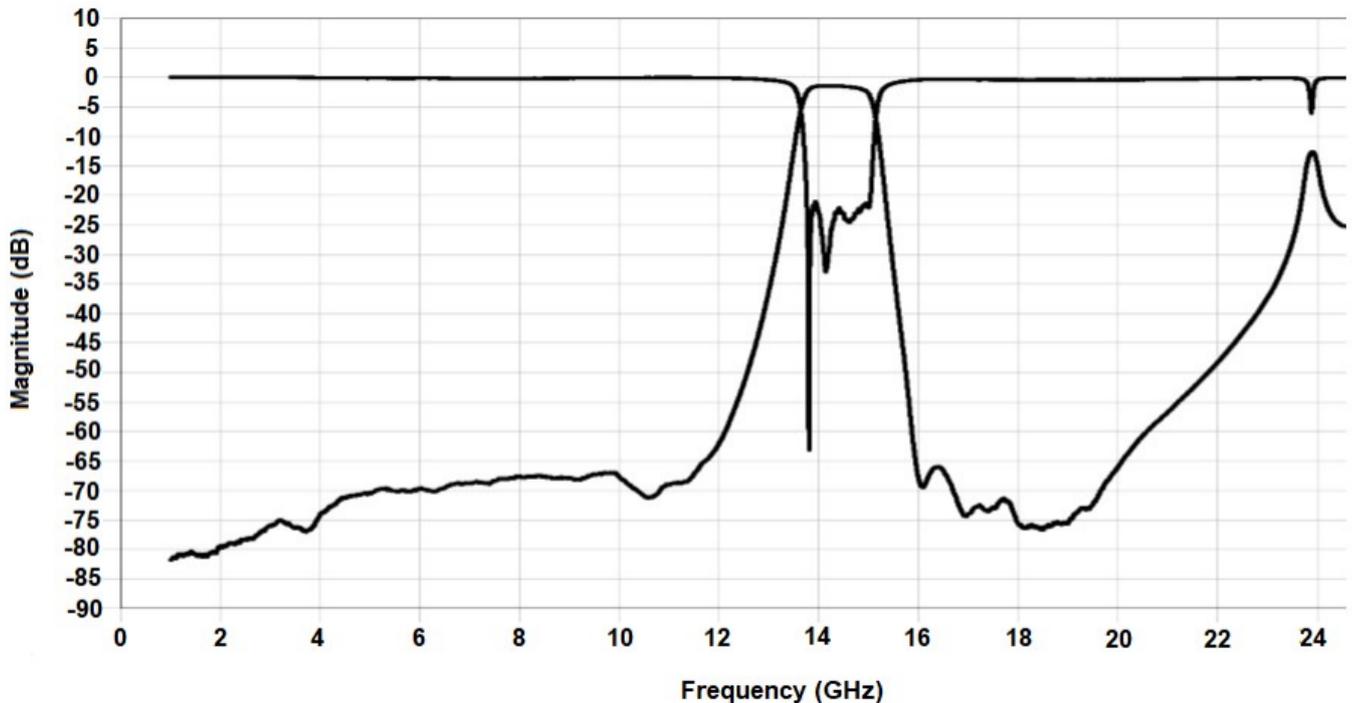
### Specifications\*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	14.1 - 14.9	2.75	3.0	3.5
Return Loss (dB)		10.0	14.0	
Low Side Rejection (dB)	DC - 11.75	60.0	65.0	
High Side Rejection (dB)	16.5 - 19.5	60.0	65.0	
CW Input Power** (W)				5
$\theta_{jc} \left( \frac{^{\circ}\text{C}}{\text{W}} \right)$	15			
Size (L x W x H)	13.97 x 5.84 x 2.36 mm			

\*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary  $\pm 0.5$ dB 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.

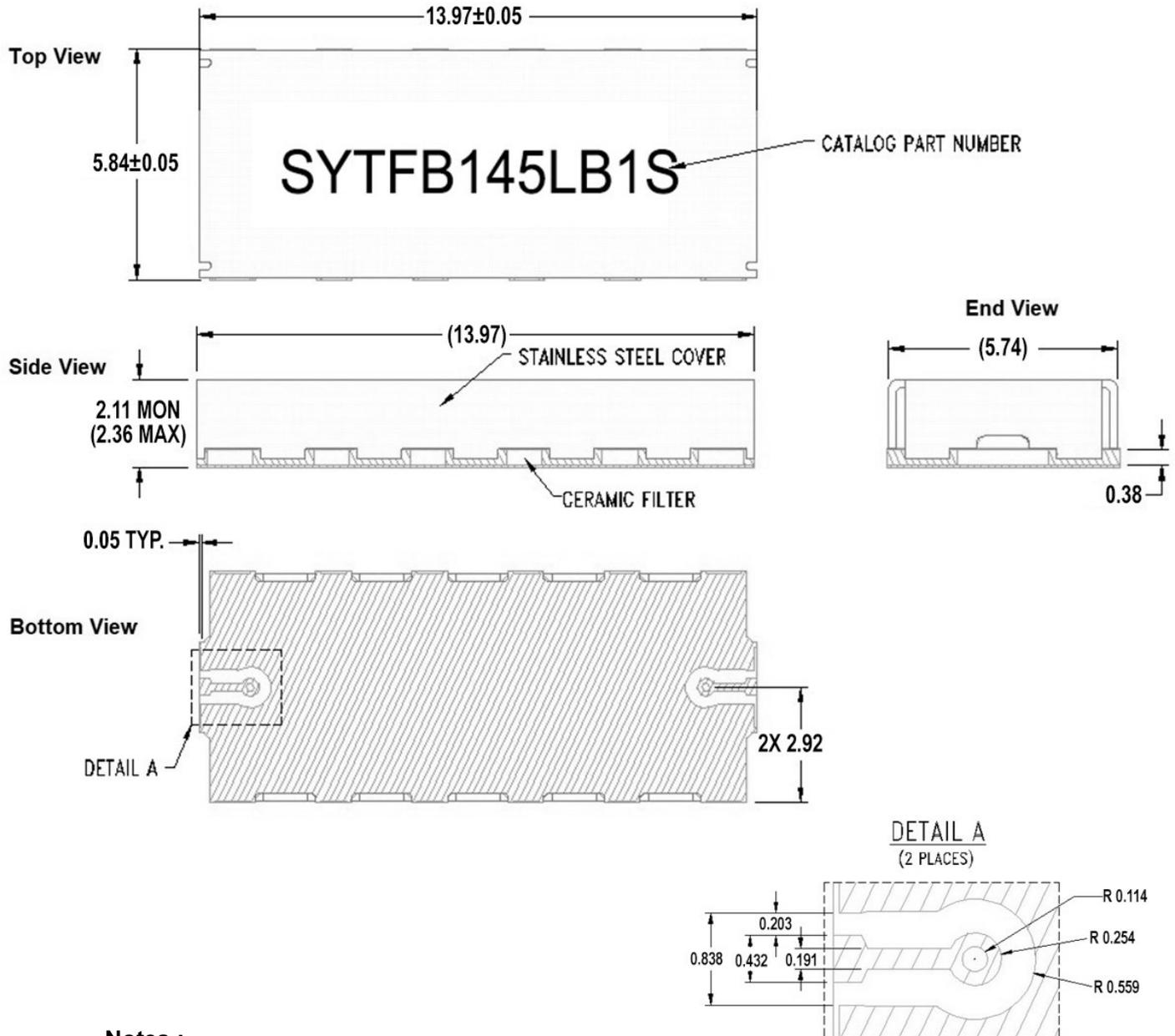
### Typical Measured Performance



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

**Physical Dimensions**

Units = mm


**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

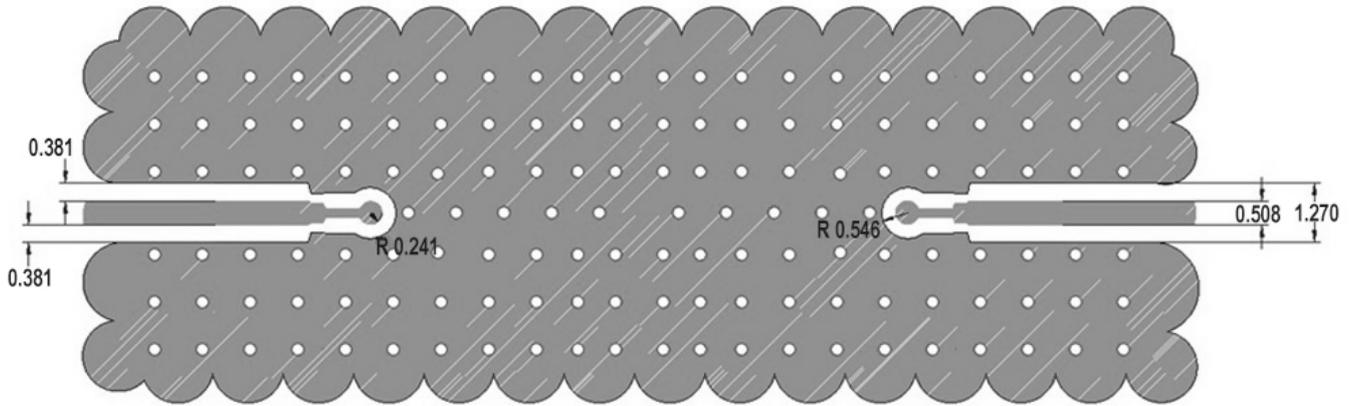
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 For detailed performance specs & shopping online see Yantel web site : [www.yantel-corp.com](http://www.yantel-corp.com)

### Recommended PCB Layout

Unit = mm



### PCB RECOMMENDED STACKUP

Filter is matched to RF layer stackup seen below

Dimensions are specified below in mm (not to scale)

Board material : RO4350b  
 Board material design dk : 3.66  
 CPWG : 0.51mm trace width, 0.38mm gaps

