

### 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

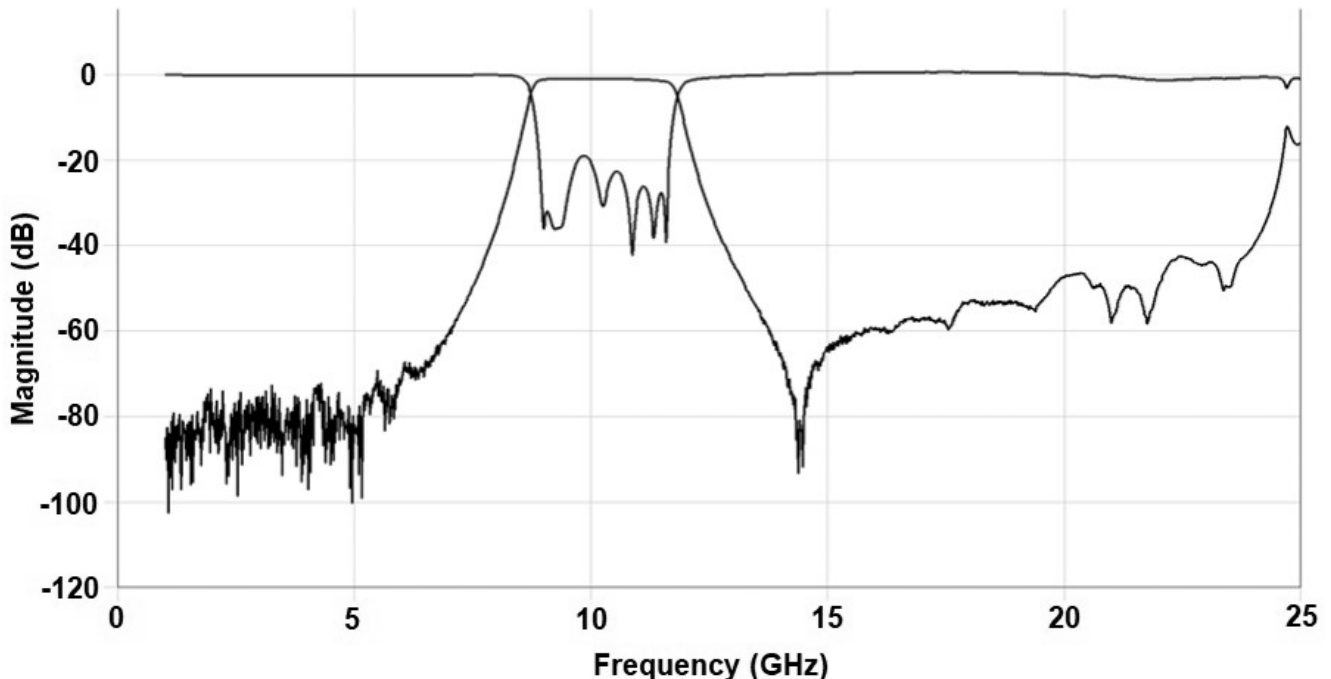
### Specifications\*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	9.0 - 11.0		1.2	2.25
Return Loss (dB)		10.0	18.0	
Low Side Rejection (dB)	DC - 7.35	40.0	48.0	
High Side Rejection (dB)	13.0 - 23.0	40.0	48.0	
CW Input Power** (W)				10
$\theta_{JC} \left( \frac{^{\circ}C}{W} \right)$	7.5			
Size (L x W x H)	0.400 x 0.150 x 0.103 in 10.16 x 3.80 x 2.62 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 50.0Ohm CPW ground traces going into the ports at room temperature.

### Yantel Corporation

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

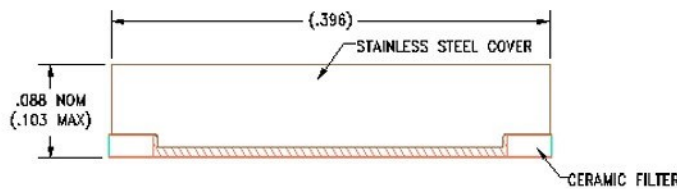
### Physical Dimensions

Units = inches

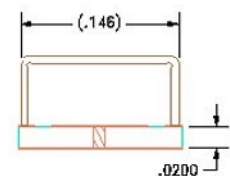
#### Top View



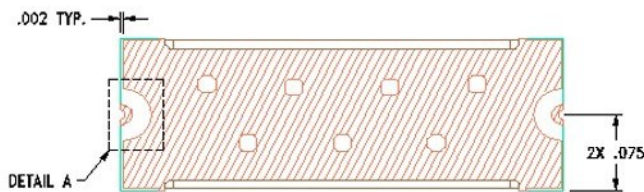
#### Side View



#### End View



#### Bottom View

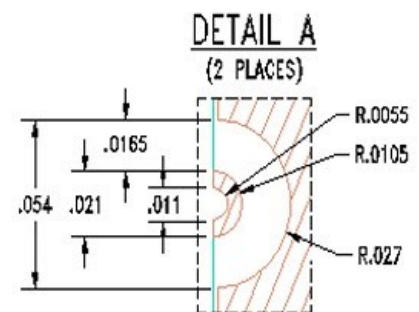


#### Notes :

- Termination Finish:  
ENIG: 3 - 6  $\mu$ inch Au over 50  $\mu$ inch Ni
- Maximum Assembly Process Temperature: 250°C

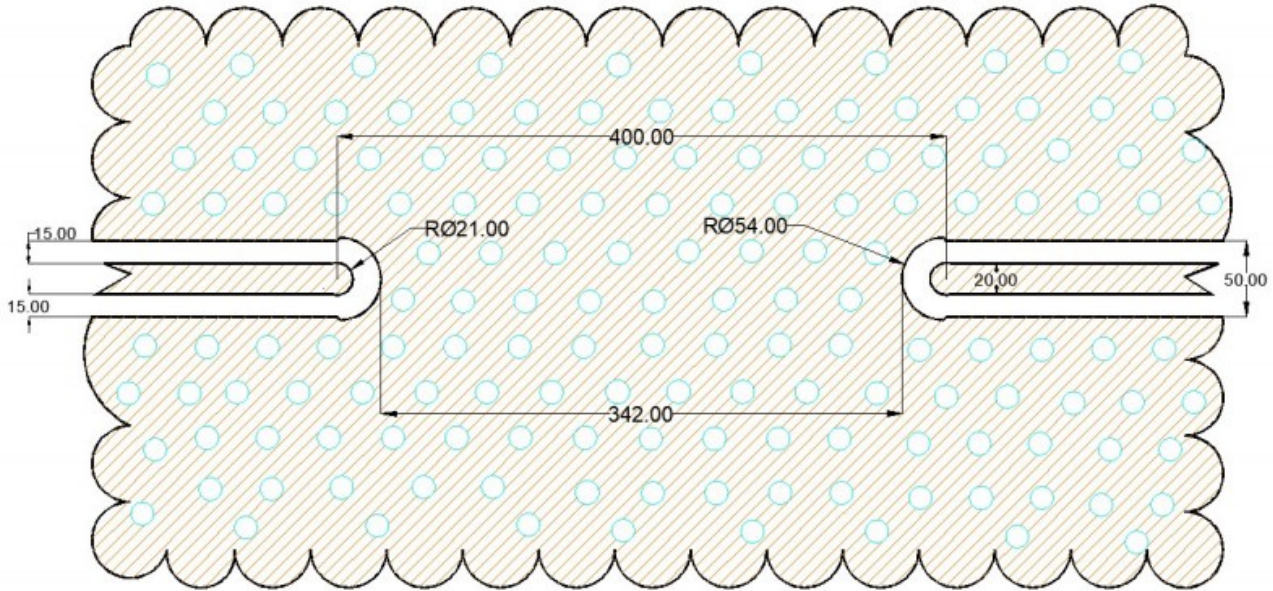
#### Tolerances:

- For values with 3 decimal places  $\pm 0.001$   
 For values with 4 decimal places  $\pm 0.0005$



**Recommended PCB Layout**

Unit =mils

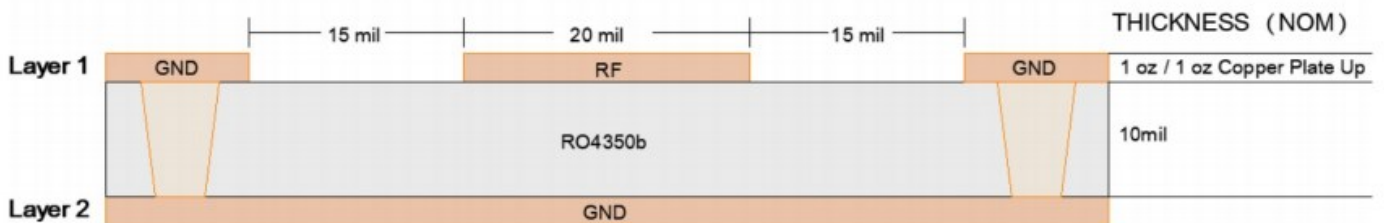

**PWB TOP METAL**

**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


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