

### 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

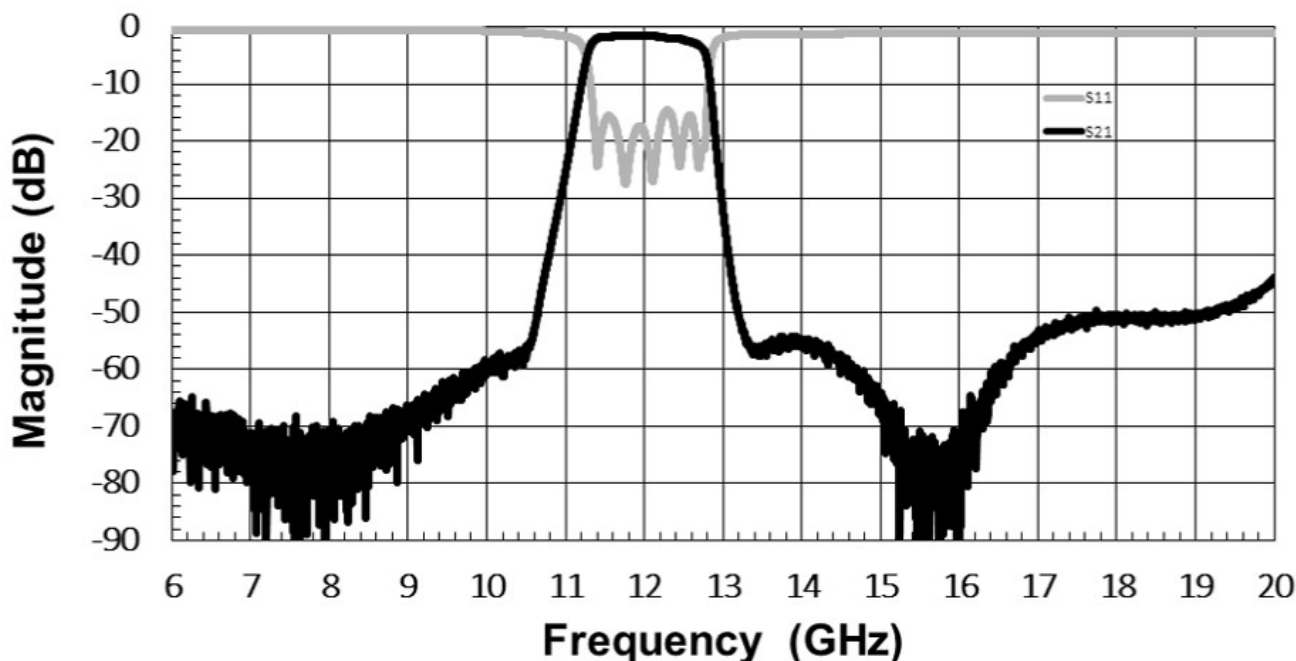
### Specifications\*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	11.5 - 12.5		2.0	3.0
Return Loss (dB)		10	14	18
Low Side Rejection (dB)	DC - 10.6	30	45	
High Side Rejection (dB)	13.2 - 19.5	30	45	
CW Input Power** (W)				5
$\theta_{JC} \left( \frac{^{\circ}C}{W} \right)$	15			
Size (L x W x H)	13.33 x 5.71 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.

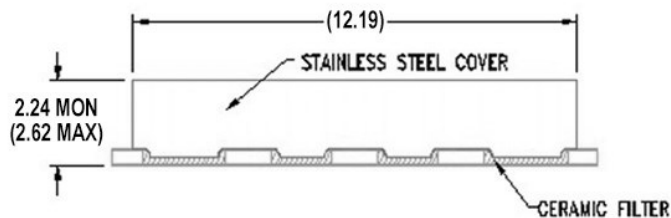
### Physical Dimensions

Units = mm

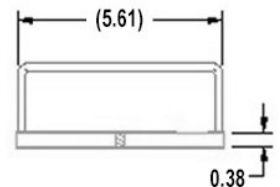
#### Top View



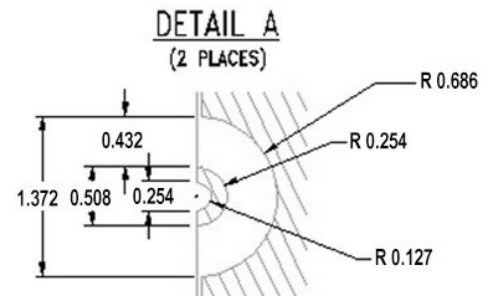
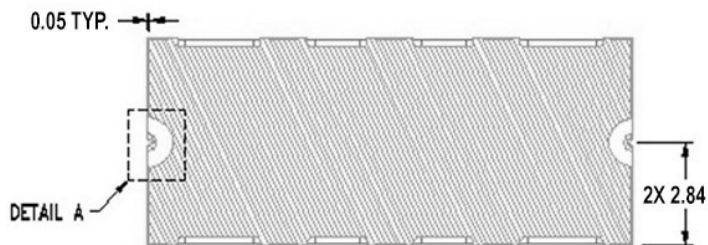
#### Side View



#### End View



#### Bottom View



### Notes :

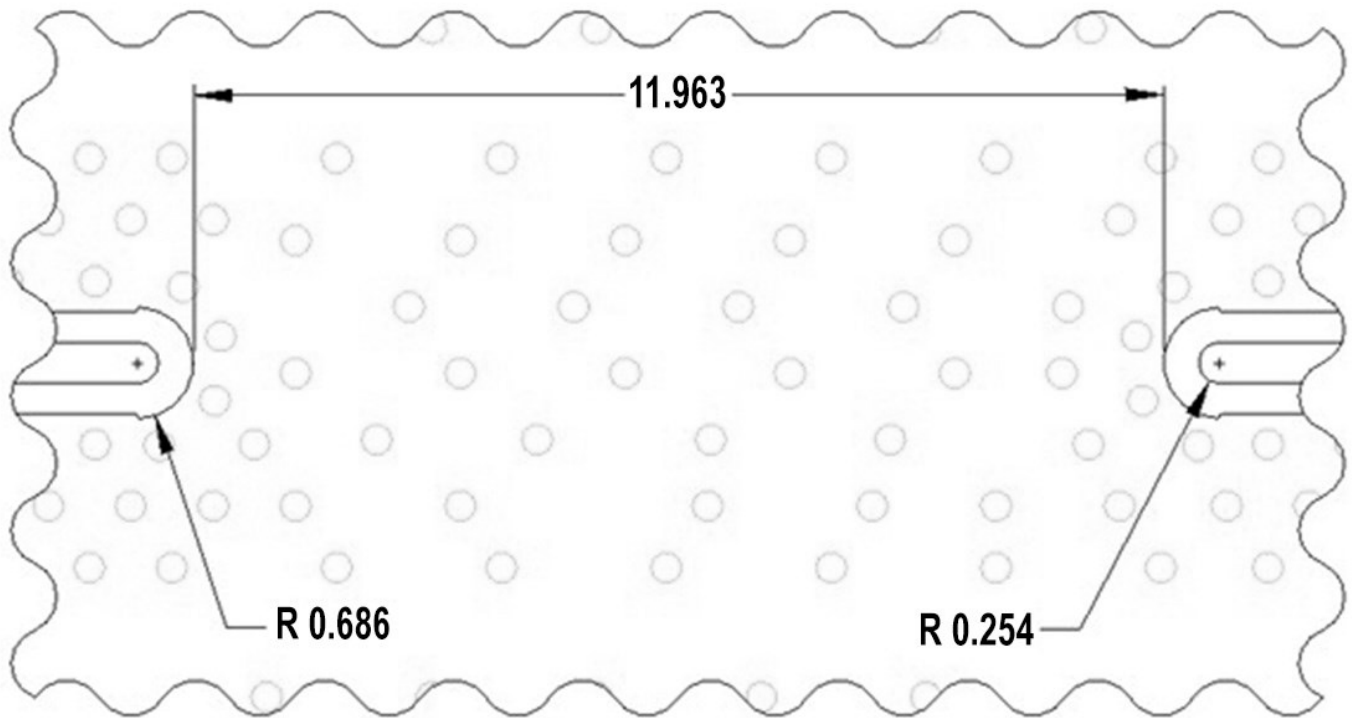
1. Termination Finish:

ENIG: 76-152  $\mu$ m Au over 1270  $\mu$ m Ni

2. Maximum Assembly Process Temperature: 250°C

3. Dimension tolerance:  $\pm 0.05$

## Recommended PCB Layout



Unit = mm

### Note:

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