

### 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

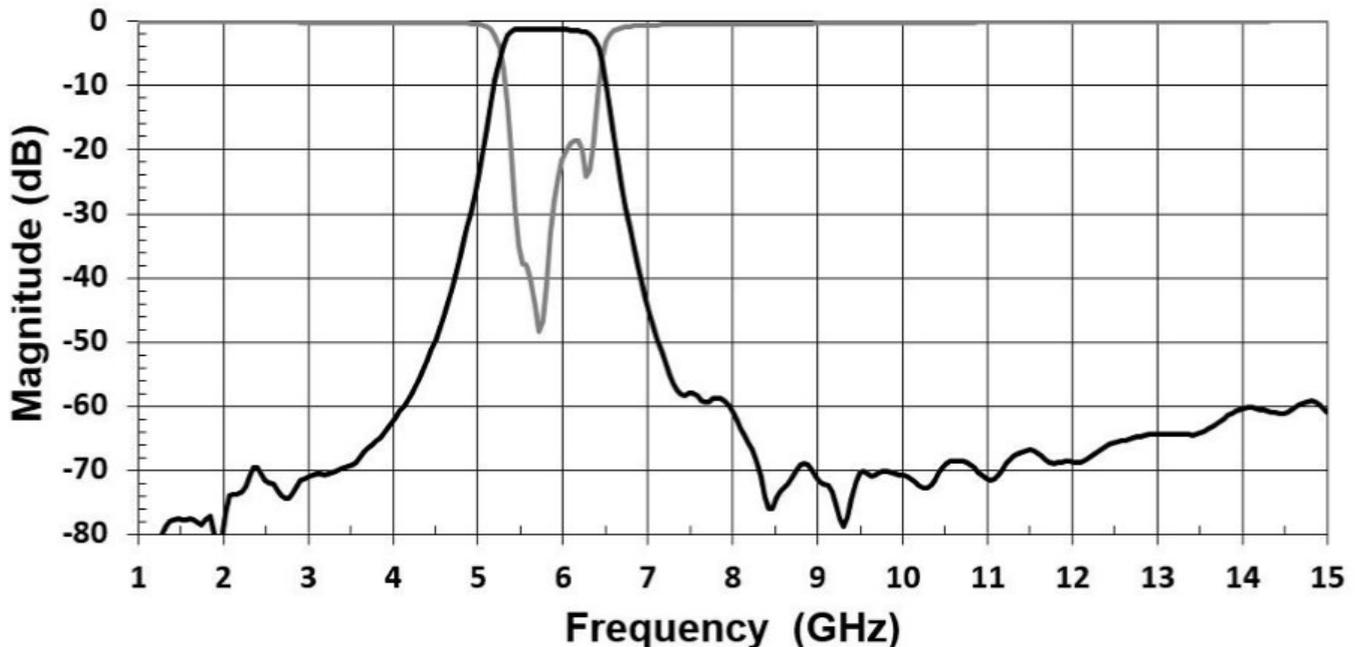
### Specifications\*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	5.5 - 6.2		1.5	2.5
Return Loss (dB)		10	18	
Low Side Rejection (dB)	DC - 2.25	60	65	
High Side Rejection (dB)	8.0 - 13.0	50	60	
CW Input Power** (W)				10
$\theta_{jc} \left( \frac{^{\circ}\text{C}}{\text{W}} \right)$	7.5			
Size (L x W x H)	12.06 x 6.98 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 50.0Ω CPW ground traces going into the ports at room temperature.

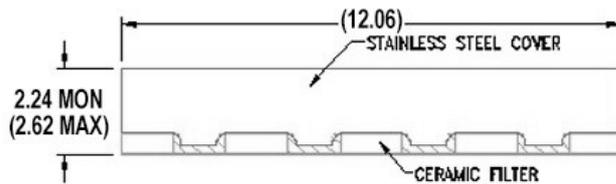
### Physical Dimensions

Units = mm

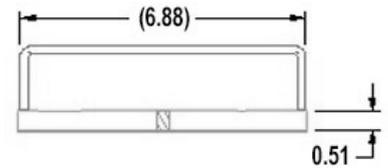
#### Top View



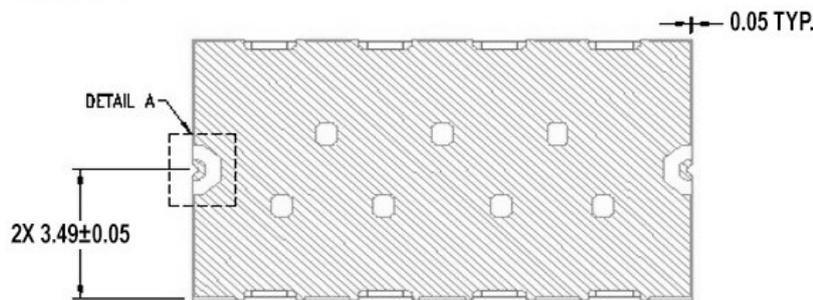
#### Side View



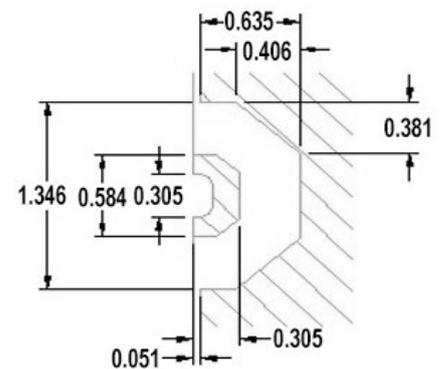
#### End View



#### Bottom View



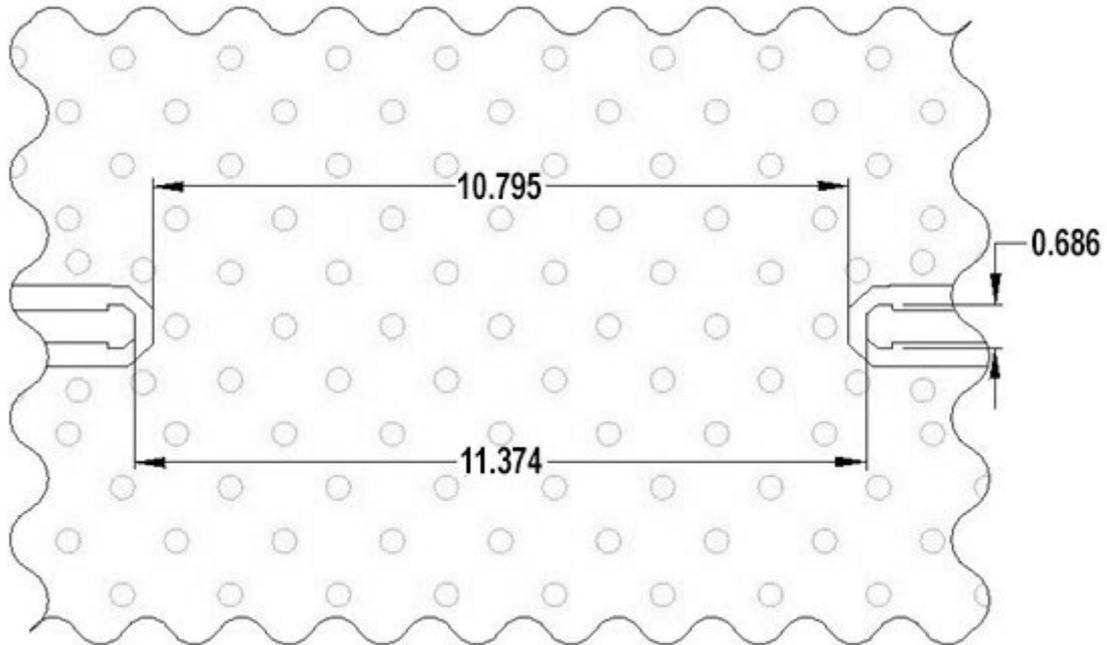
#### DETAIL A (2 PLACES)



#### 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

### Recommended PCB Layout



Units = mm

#### Note:

- 50 $\Omega$  trace dimensions are application specific.
- Ensure adequate grounding beneath the part.