

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

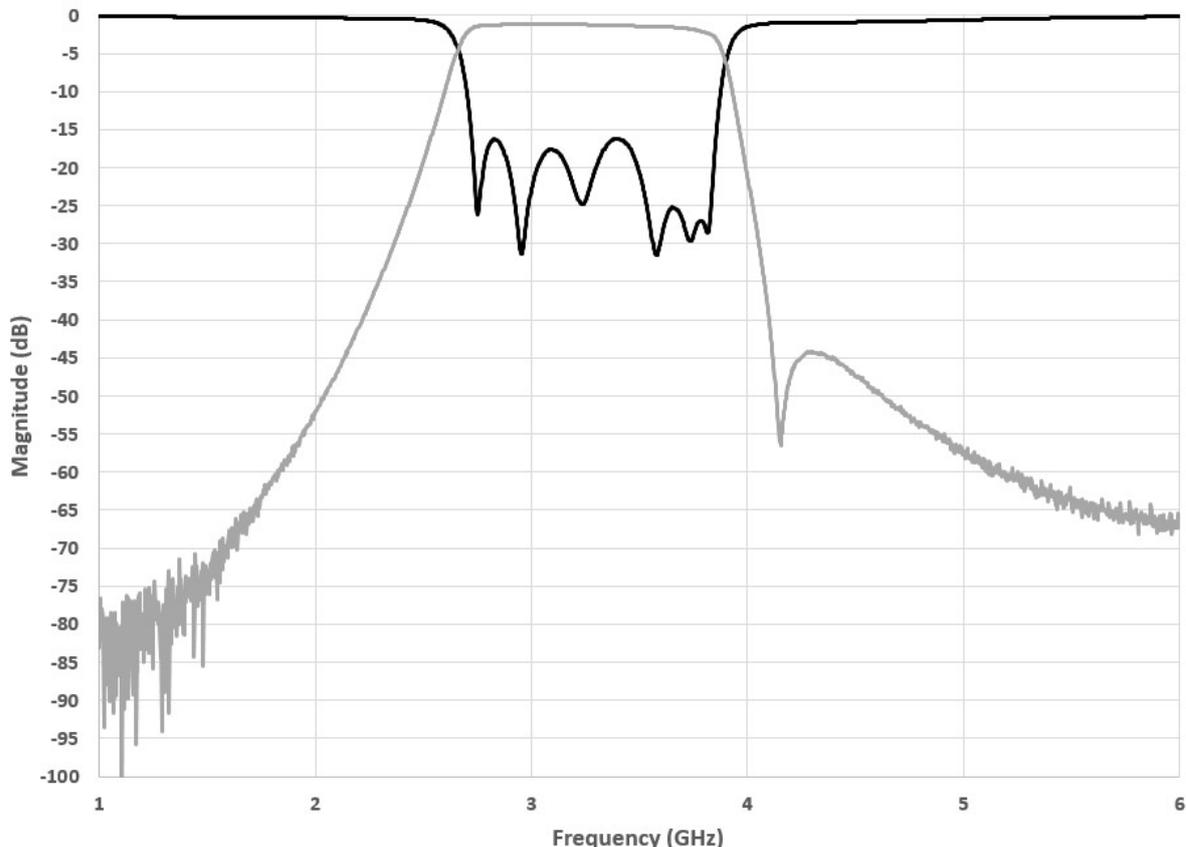
Specifications*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	2.75 - 3.75		2.2	3.0
Return Loss (dB)		10.0	15.0	12.0
Low Side Rejection (dB)	DC – 1.875	40.0	45.0	
High Side Rejection (dB)	4.125 - 6.0	40.0	45.0	
CW Input Power** (W)				10
$\theta_{jc} \left(\frac{^{\circ}\text{C}}{\text{W}} \right)$	7.5			
Size (L x W x H)	9.14 x 6.60 x 2.50 mm			

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary $\pm 0.5\text{dB}$ 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 DEB (0.254mm RO4350B with 50Ω CPW ground traces), tested at room temperature.

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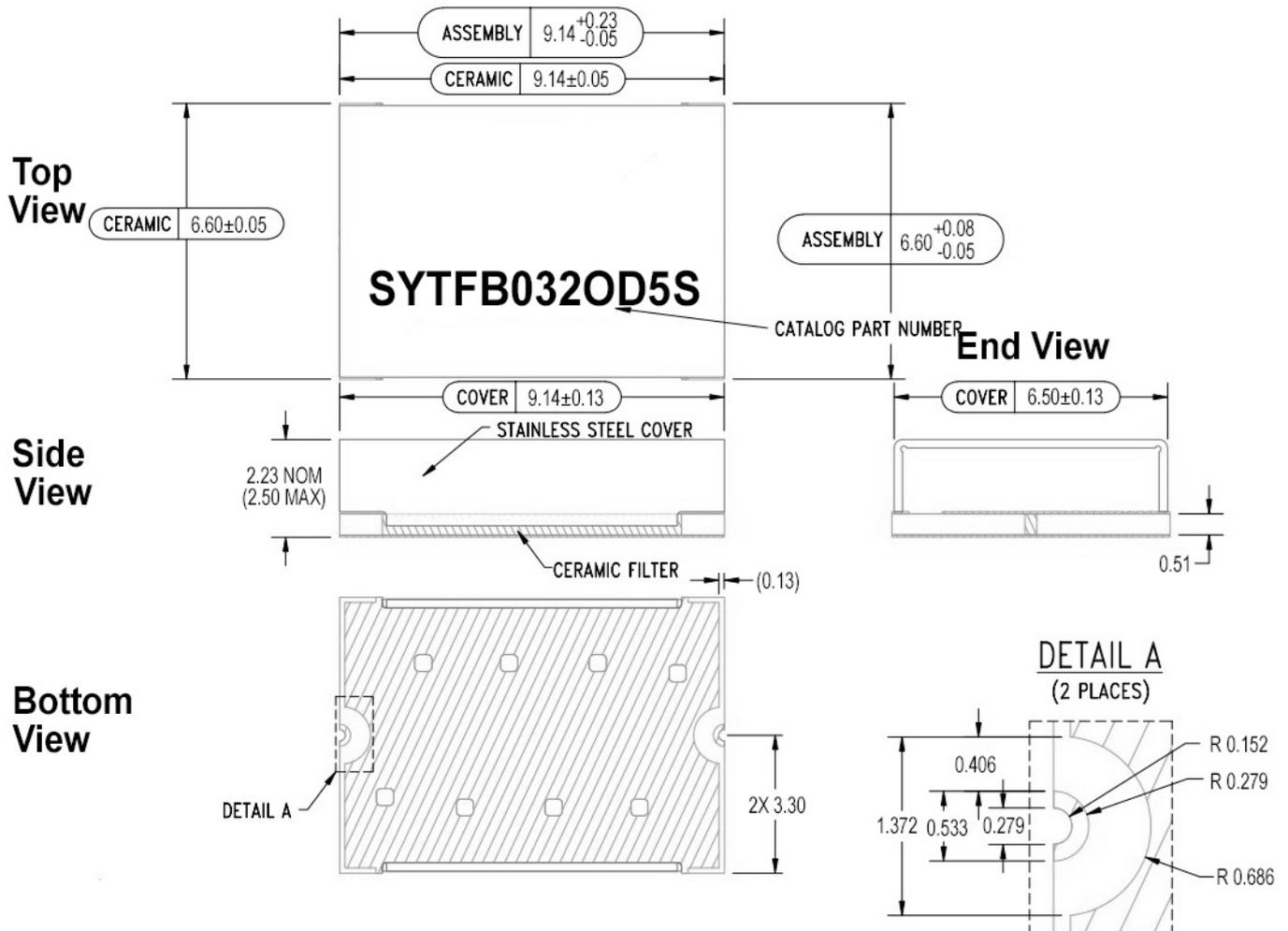
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For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Physical Dimensions

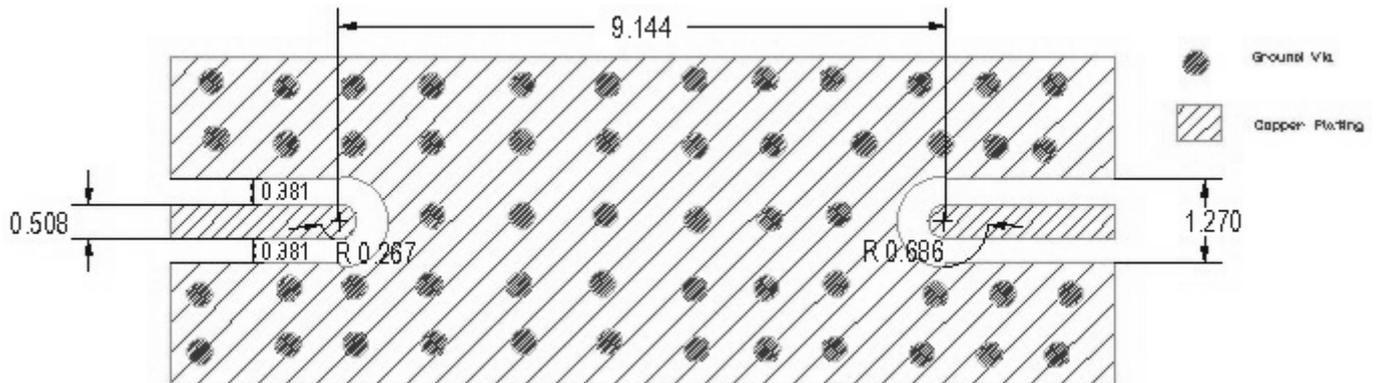
Units = mm



Notes :

- Termination Finish:
ENIG: 76-152 μm Au over 1270 μm Ni
- Maximum Assembly Process Temperature: 250°C
- Dimension tolerance: ± 0.05

Recommended PCB Layout



Units = mm

Notes :

- 50Ω trace dimensions are application specific.
- 50Ω trace dimensions are designed for 0.254mm thick R04350B Rogers Board.
- Ensure adequate grounding beneath the part.