

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

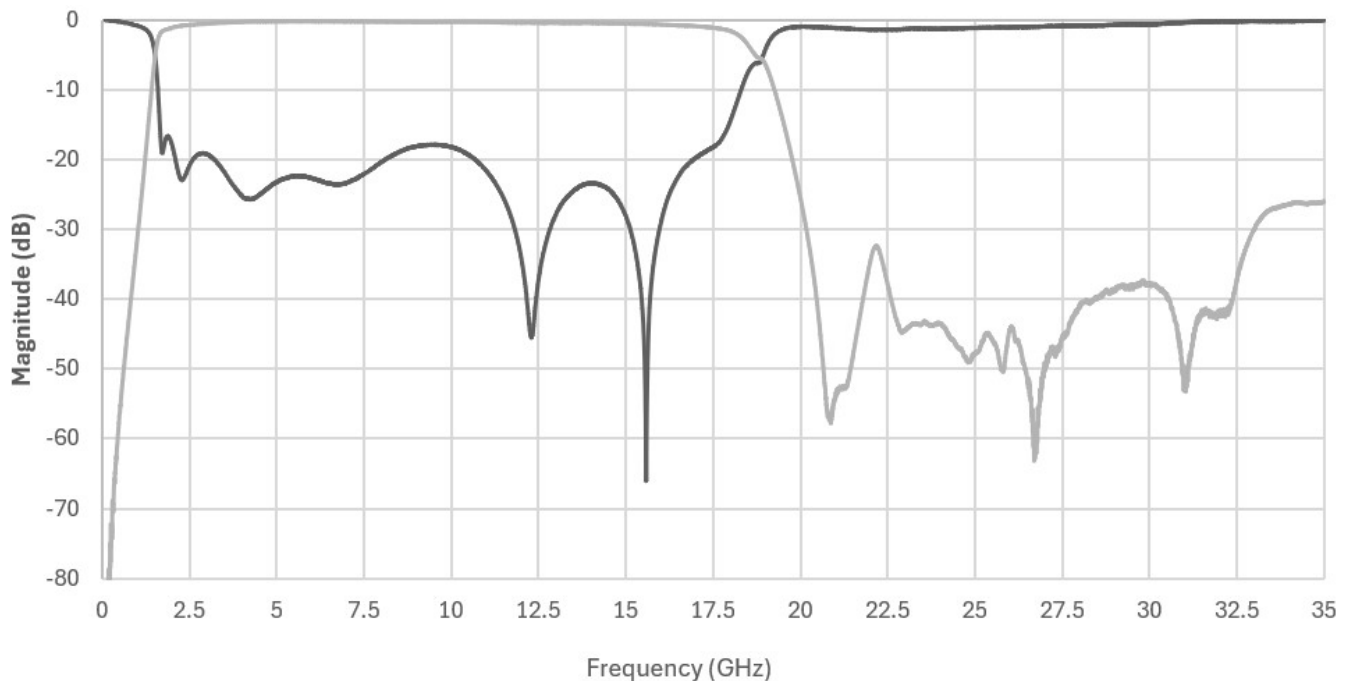
Specifications*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	2.0 - 18.0		2.0	3.0
Return Loss (dB)		10.0	15.0	
Low Side Rejection (dB)	DC - 1.0	25.0	35.0	
High Side Rejection (dB)	21.5 - 35.0	20.0	30.0	
CW Input Power** (W)	5			
Size (L x W x H)	8.64 x 4.32 x 2.16 mm			

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ± 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.

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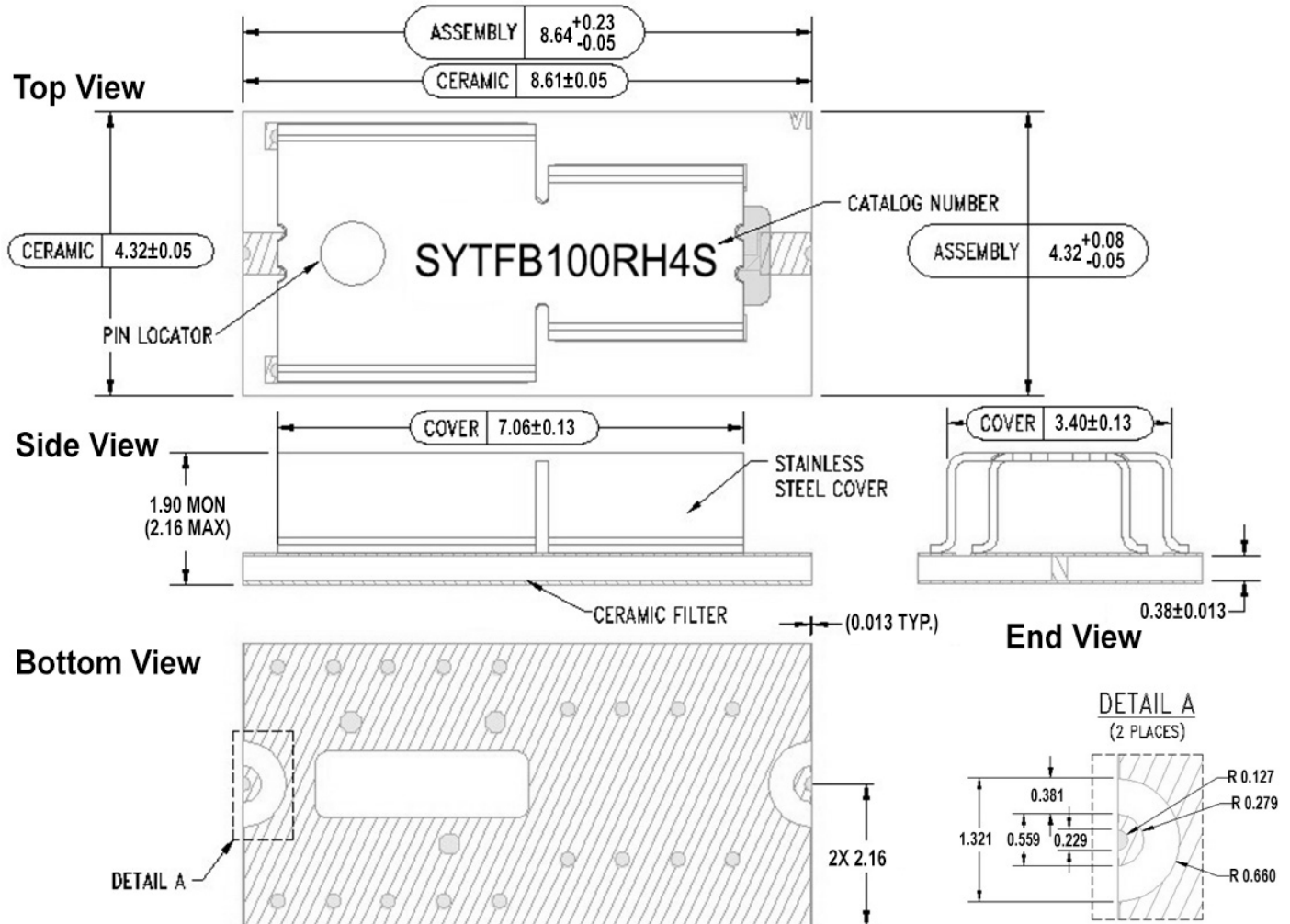
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For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Physical Dimensions

Units = mm

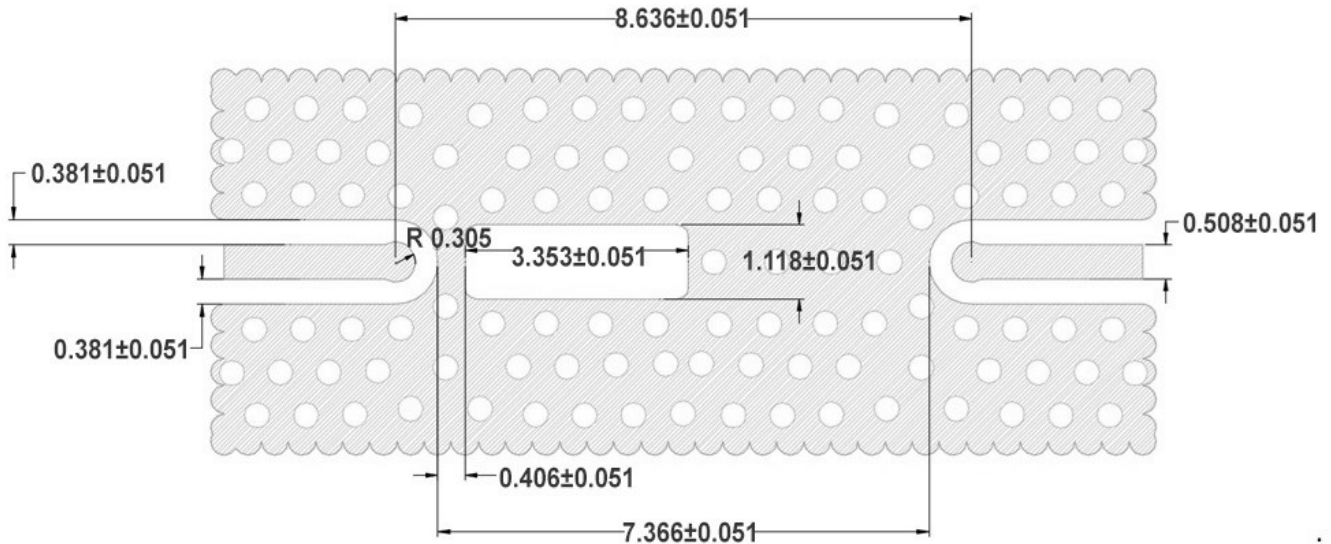


Notes :

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

Recommended PCB Layout

Units = mm

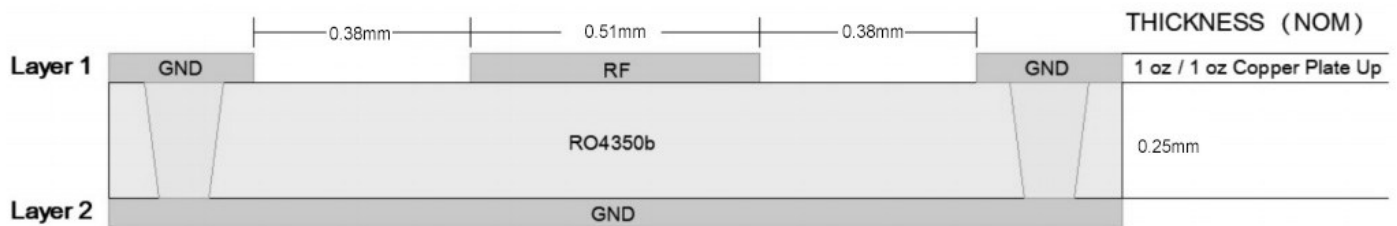


PCB RECOMMENDED STACKUP

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



Note:

- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.
- ***Note avoid copper within the voided area in the center under the part.

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