

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: MSL 1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

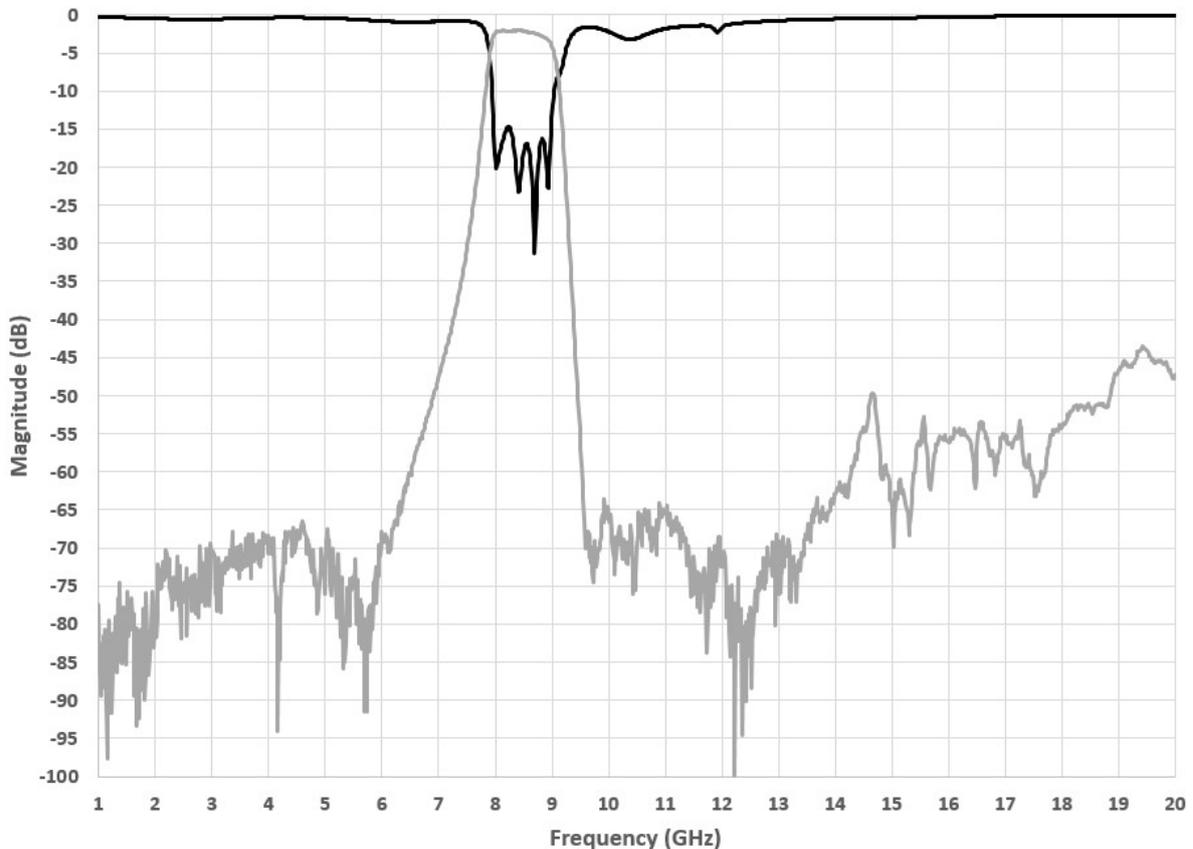
Specifications*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	8.00 - 8.84		3.3	4.0
Return Loss (dB)		10.0	15.0	
Low Side Rejection (dB)	DC - 7.0	40.0	50.0	
High Side Rejection (dB)	9.75 - 21.0	40.0	45.0	
CW Input Power** (W)				5
$\theta_{jc} \left(\frac{^{\circ}\text{C}}{\text{W}} \right)$	15			
Size (L x W x H)	15.24 x 7.62 x 2.36 mm			

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ± 0.5 dB over temperature.

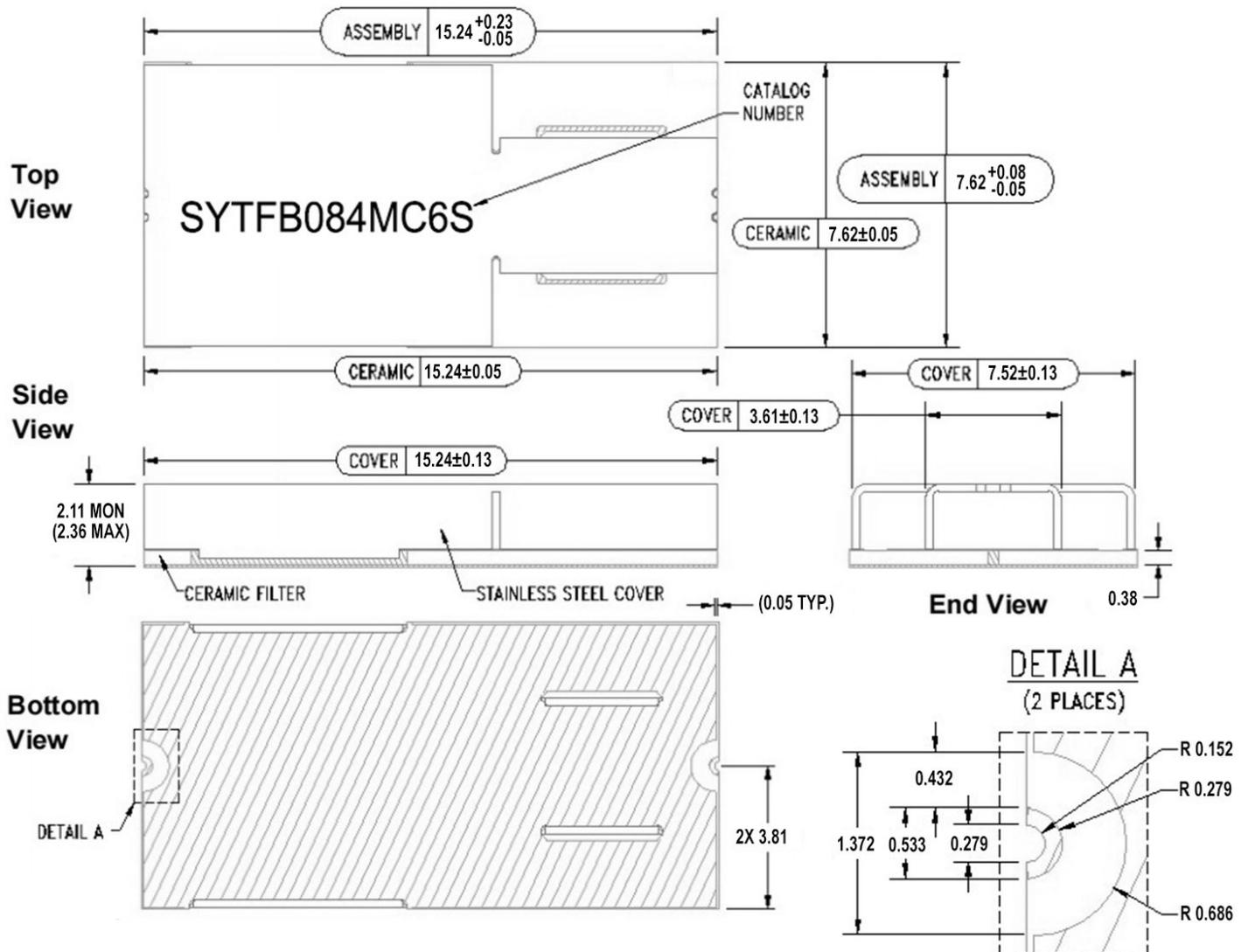
**Power rating assumes the component will be mounted to a PCB with good thermally conducting ground vias as outlined in the recommended PCB layout that are connected to an adequate heat sink. Max power is based on 125°C base temperature.

Typical Measured Performance



Physical Dimensions

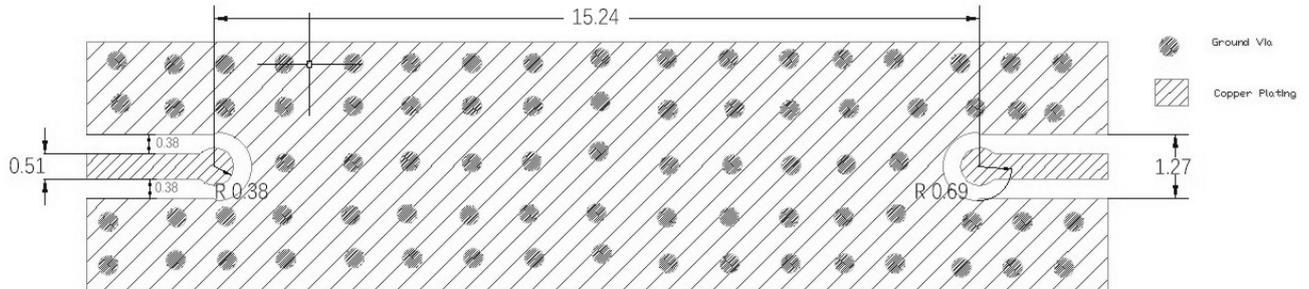
Units = mm



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



Unit = mm

Note:

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