

### 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

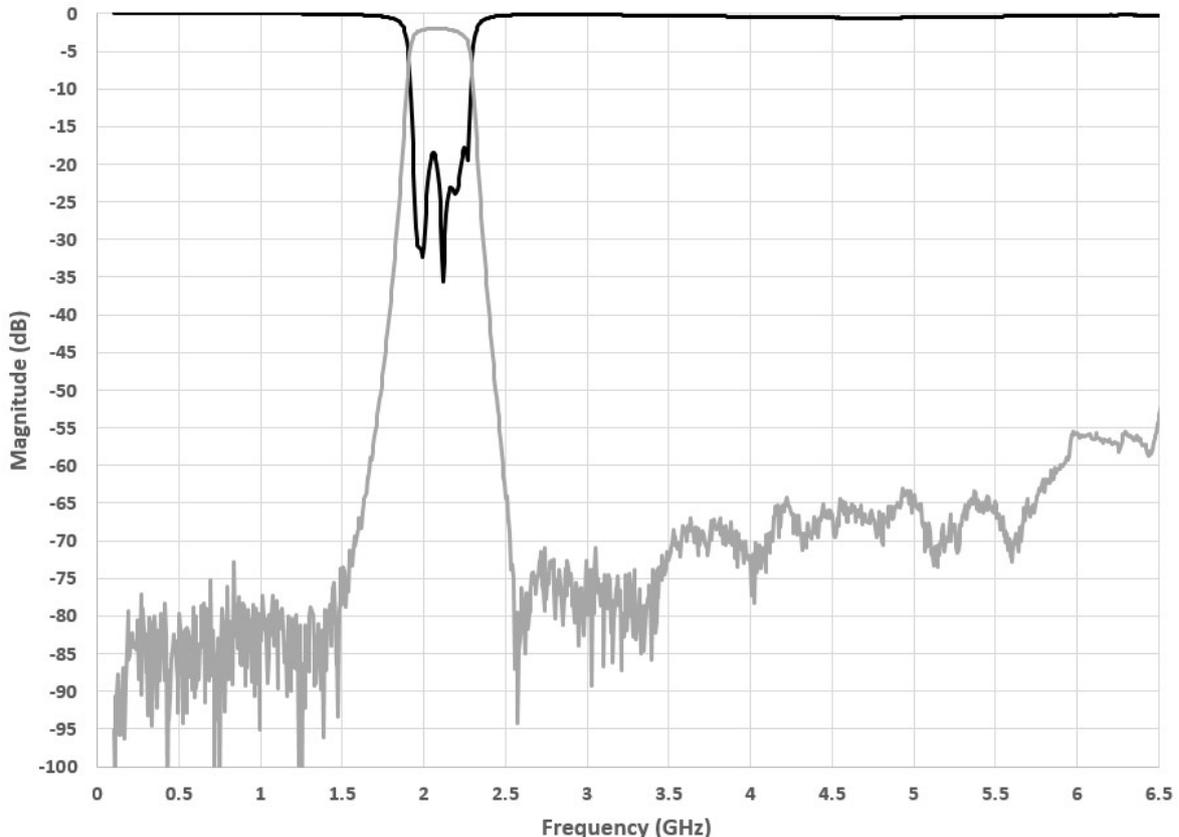
### Specifications\*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	2.00 - 2.21		2.6	3.0
Return Loss (dB)		10.0	15.0	12.0
Low Side Rejection (dB)	DC - 1.75	40.0	45.0	
High Side Rejection (dB)	2.45 - 6.50	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)	15.24 x 7.62 x 3.25 mm			

\*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary  $\pm 0.5\text{dB}$  over temperature.

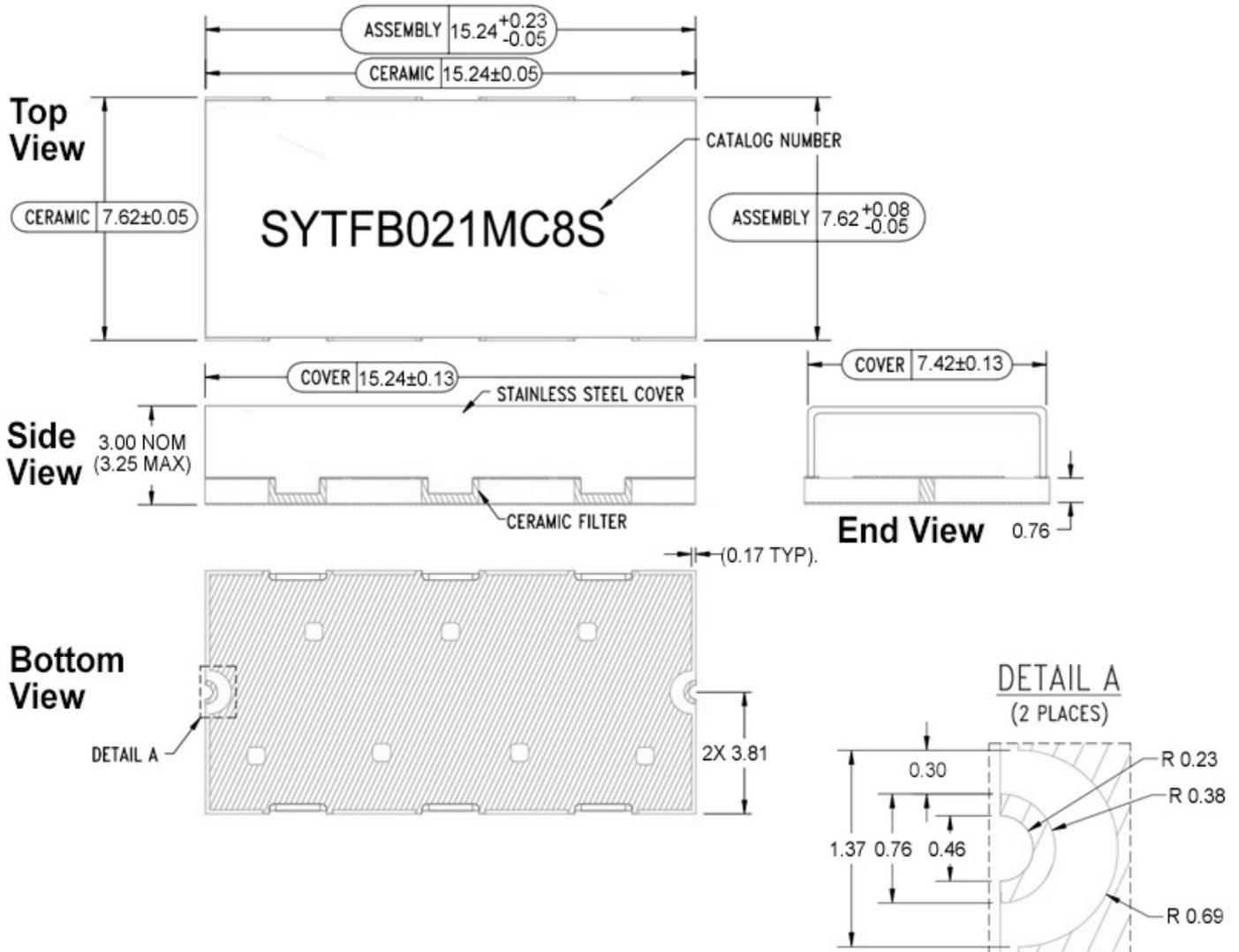
\*\*Power rating assumes the component will be mounted to a PCB with good thermally conducting ground vias as outlined in the recommended PCB layout that are connected to an adequate heat sink. Max power is based on 125°C base temperature.

### Typical Measured Performance



## Physical Dimensions

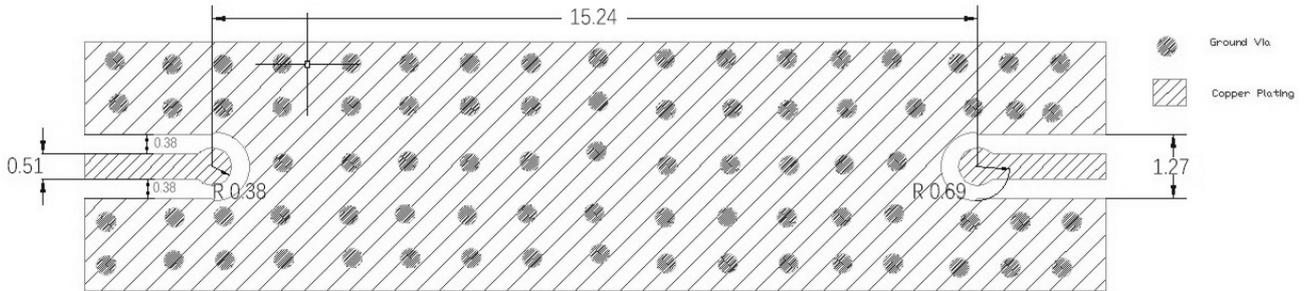
Units = mm



### Notes :

- Termination Finish:  
ENIG: 76-152  $\mu\text{m}$  Au over 1270  $\mu\text{m}$  Ni
- Maximum Assembly Process Temperature: 250°C
- Dimension tolerance:  $\pm 0.05$

## Recommended PCB Layout



Unit = mm

### Notes :

- 50Ω trace dimensions are application specific.
- 50Ω trace dimensions are designed for 10mil thick R04350B Rogers Board .
- Ensure adequate grounding beneath the part.