

### 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

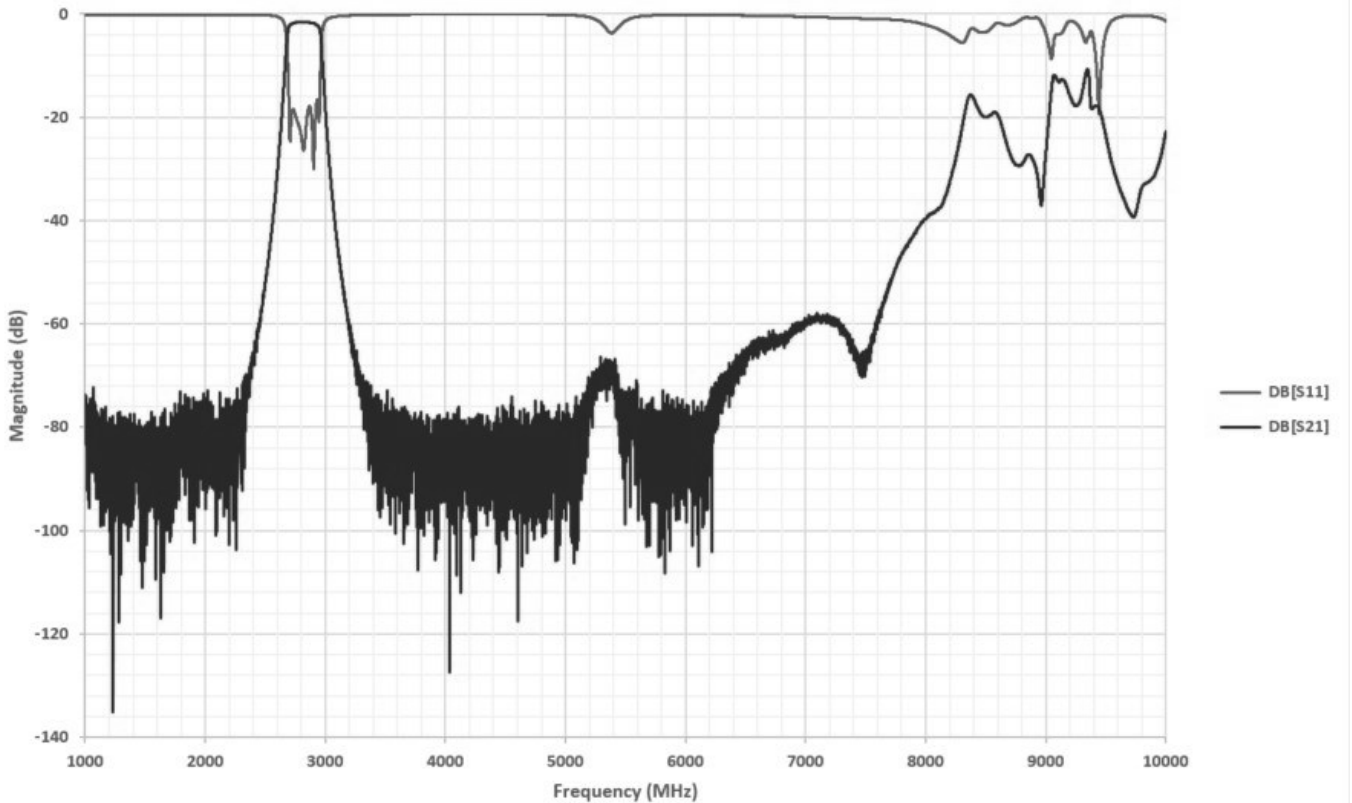
### Specifications\*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	2.7 - 2.9		1.7	2.5
Return Loss (dB)		15.0	18.0	
Low Side Rejection (dB)	DC - 2.4	60.0	65.0	
	2.40 - 2.54	35.0		
High Side Rejection (dB)	3.06 - 3.20	35.0	62.0	
	3.20 - 6.00	60.0		
CW Input Power** (W)				41.0
$\theta_{JC} \left( \frac{^{\circ}C}{W} \right)$	1.8			
Size (L x W x H)	30.48 x 8.89 x 4.32 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 50.00hm CPW ground traces going into the ports at room temperature.

### Yantel Corporation

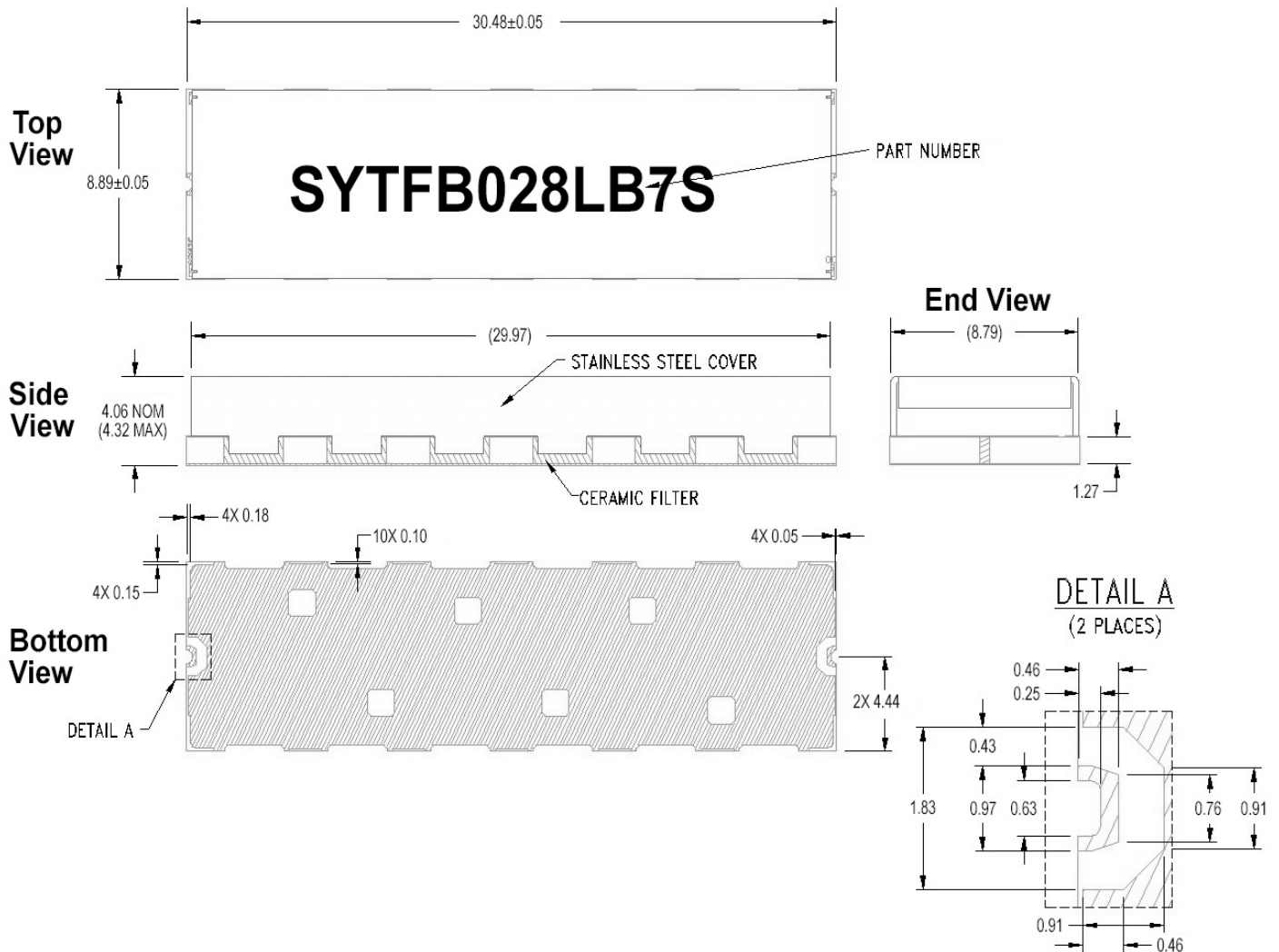
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For detailed performance specs & shopping online see Yantel web site : [www.yantel-corp.com](http://www.yantel-corp.com)

### Physical Dimensions

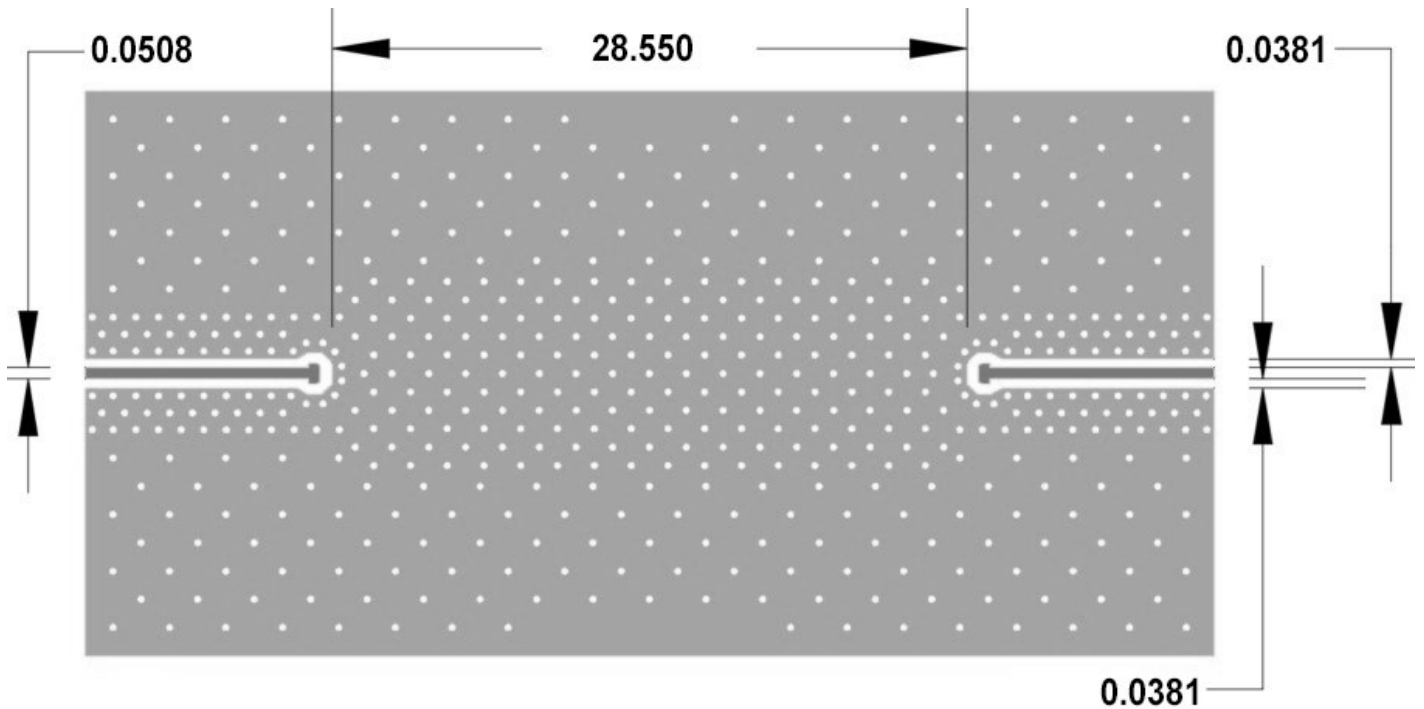
Units = mm



### 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

**Note:**

Unit = mm

Parameters of the Recommended PCB:

- 0.254mm Roger Board RO4350B
- 3.66 dK, Board Material design
- Dimensions of 50.0 Ohm CPWG :
  - 0.508mm RF trace width
  - 0.381mm spacing