

Description

Yantel's surface mounted bandpass filters have the advantages of low insertion loss and return loss, small size, high rejection, good product consistency, etc. The product adopts high-precision innovative manufacturing process, suitable for mass production, competitive cost, and has obvious cost advantages compared with thin film filters.

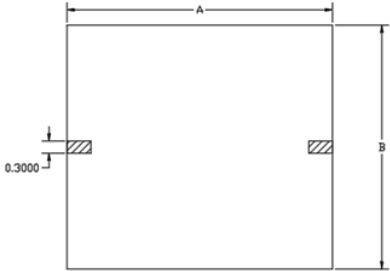
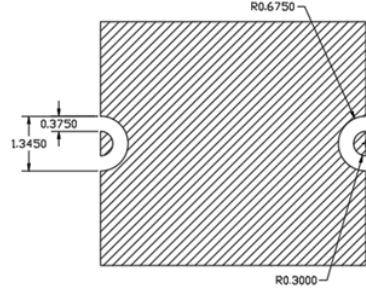
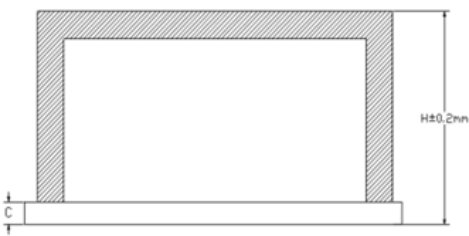
Features

- Small size
- Low loss, High rejection
- With shielding cover
- SMD Surface mounted
- Humidity level: MSL1
- Working temperature: -55 to +85°C
- Characteristic Impedance: 50Ω
- Tape package
- Competitive price and suitable for large volume use

Technical Data (Normal temperature +25°C)

No.	Parameter		Min.	Typical	Max.	Unit
1-1	Model No.		SYTFB145RE0S			
1-2	Size		6.1mm*4.1mm*2.5mm			
1-3	Central Frequency f_0			15		GHz
1-4	Working Frequency		12		18	GHz
1-5	Central Loss			2.5		dB
1-6	Band fluctuation			0.8	1.0	dB
1-7	Return Loss		12	15		dB
1-8	Rejection	DC-8GHz		40		dBc
		22.5-26GHz		40		
1-9	Power					dBm
1-10	Working temperature		-55		+85	°C
1-11	Storage temperature		-55		+125	°C
1-12	Output installation method		Surface mounted			

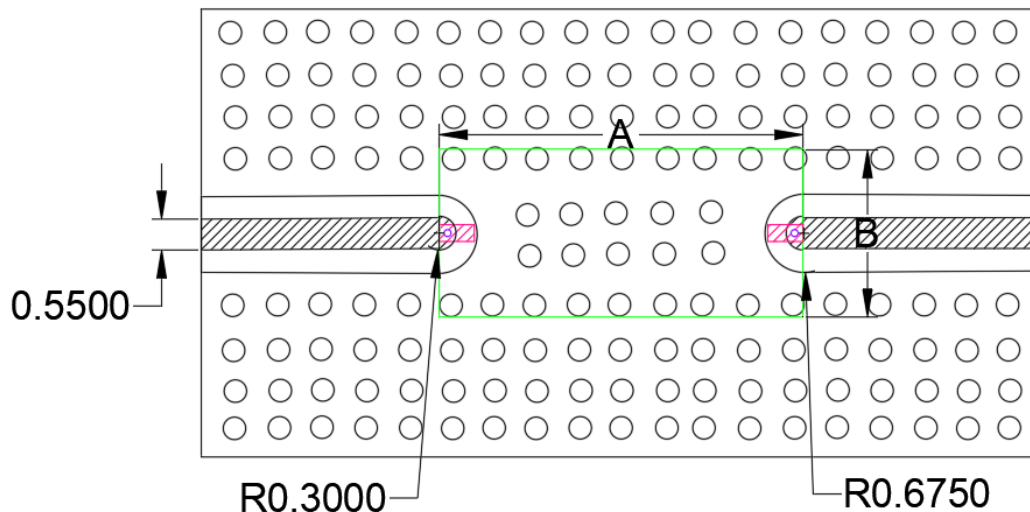
Dimensions

2-1	Dimension	See belowed picture (A、B dimension tolerance: $\pm 0.1\text{mm}$)
Front		
Revers		
		
2-2	Size	A: 6.1mm B: 4.1mm C: 0.254mm H:2.5mm (the dimension unit in the drawing is mm, and the shape tolerance of A and B is $\pm 0.1\text{mm}$)
2-3	Substrate material	Alumina (Er=9.8)
2-4	Surface treatment	Gold plating

Version status

Version No.	Version date	File status
V2	20250717	✓

Recommended assembly drawing



Remark point:

1. Testing Substrate material is Rogers4350B($\epsilon_r=3.66$), thickness is 0.254mm
2. Make sure there is enough solder on the bottom surface of the filter and ensure good grounding.
3. The maximum temperature during assembly is 250°C.

Simulation Curve:

