SYTFB096QC2S

Surface mounted bandpass filter

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 thick film 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℃
- Characteristic Impedance:50Ω
- Tape package
- Competitive price and suitable for large volume use

Technical Data（Normal temperature +25℃）

No.	Parameter		Min.	Typical	Max.	Unit
1-1	Model No.		SYTFB096QC2S			
1-2	Size		9.0mm*4.5mm*2.5mm			
1-3	Central Frequency f_0			10		GHz
1-4	Working Frequency		8		12	GHz
1-5	Central Loss			2.5	3.0	dB
1-6	Band fluctuation			1	1.2	dB
1-7	Return Loss		12	15		dB
1-8	Rejection	@6GHz	40	45		dBc
		@14GHz-18GHz	40	45		
1-9	Power					dBm
1-10	Working temperature		-55		+85	℃
1-11	Storage temperature		-55		+125	℃
1-12	Output installation method		Surface mounted			

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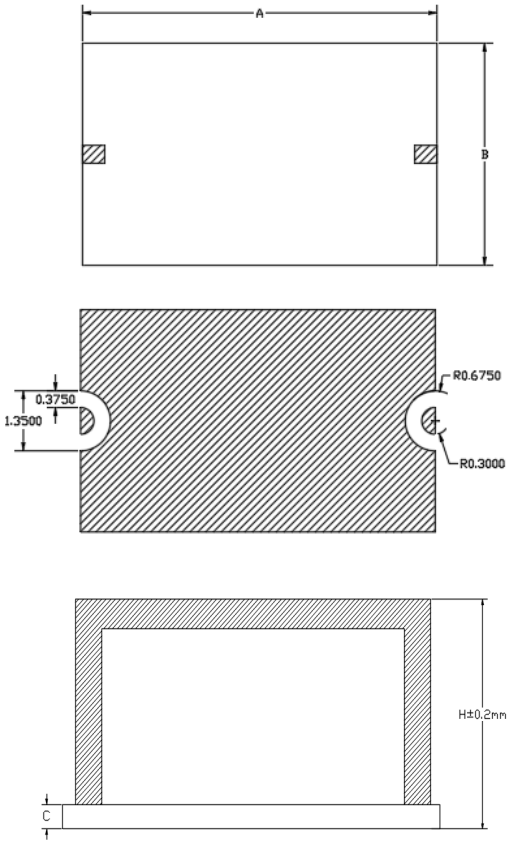
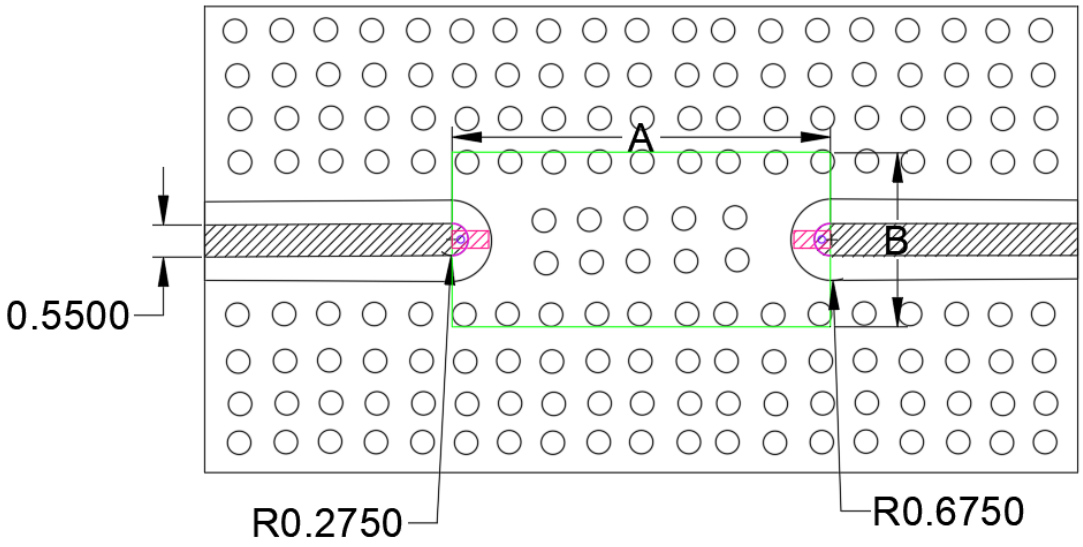
Dimensions

2-1	Dimension	See belowed picture （A、B dimension tolerance：±0.1mm）
Front Reverse		
2-2	Size	A：9.0mm B：4.50mm C:0381mm H:2.5mm (the dimension unit in the drawing is mm, and the shape tolerance of A and B is ±0.1mm)
2-3	Substrate material	Alumina (Er=9.8)
2-4	Surface treatment	Gold plating

Version status

Version No.	Version date	File status
V1	20250521	✓

Recommended assembly drawing



Remark point:

1. Testing Substrate material is Rogers4350B(Er=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℃.

Simulation Curve: