SYTFB100MD2S

SMD Bandpass Filter

Description

Yantel's SMD 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.

Features

- Small size
- Low loss, High rejection
- With shielding cover
- SMD Surface mounted
- Humidity level:MSL1
- Working temperature:-55 to +85℃
- Characteristic Impedance:50Ω
- Reel/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.	SYTFB100MD2S			
1-2	Size	6.35mm*4.06mm*2.5mm			
1-3	Central Frequency f_0		10		GHz
1-4	Working Frequency	9.5		10.5	GHz
1-5	Central Loss		2.5		dB
1-6	Band Fluctuation		0.7	1.0	dB
1-7	Return Loss	12	15		dB
1-8	Rejection@DC-8.25GHz	40	50		dBc
	Rejection@12.6-19GHz	40	50		
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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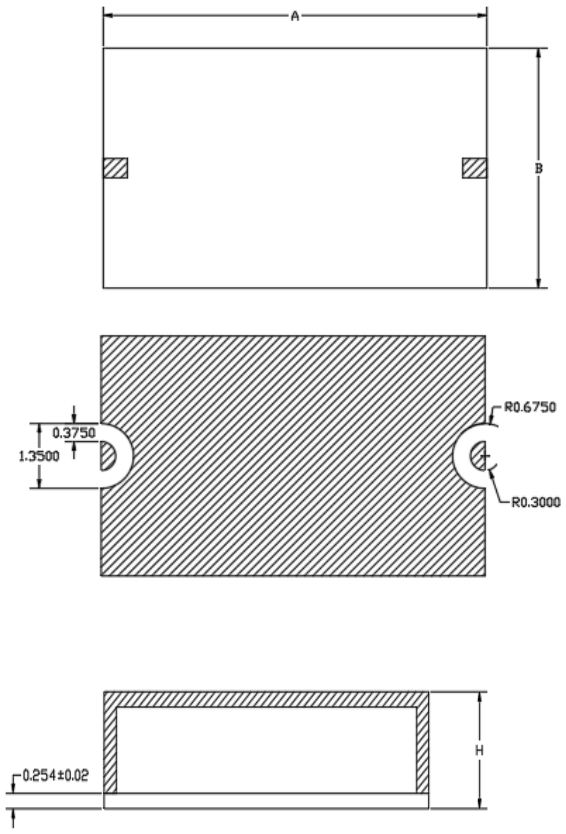
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Dimensions

2-1	Dimension	See belowed picture （A、B dimension tolerance：±0.1mm）

Front

Rever

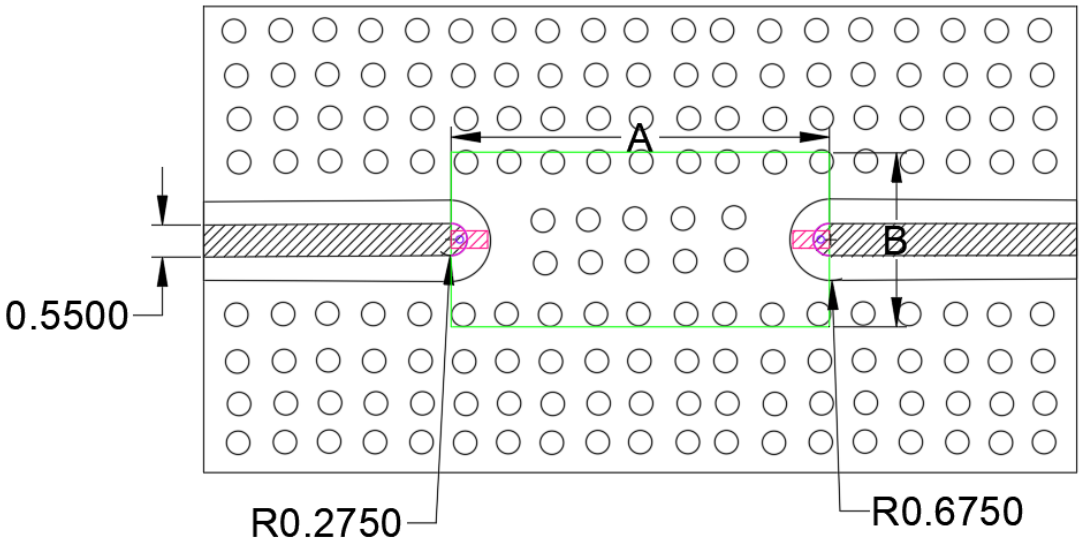


2-2	Size	A:6.35mm B:4.06mm H:2.5mm (the dimension unit in the drawing is mm, and the shape tolerance of A and B is ±0.1mm)
2-3	Substrate material	Alumina (Er=9.8)
2-4	Surface treatment	Gold plating

Version status

Version No.	Version date	File status
V1	20260417	✓

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℃.

Test Curve: