

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.

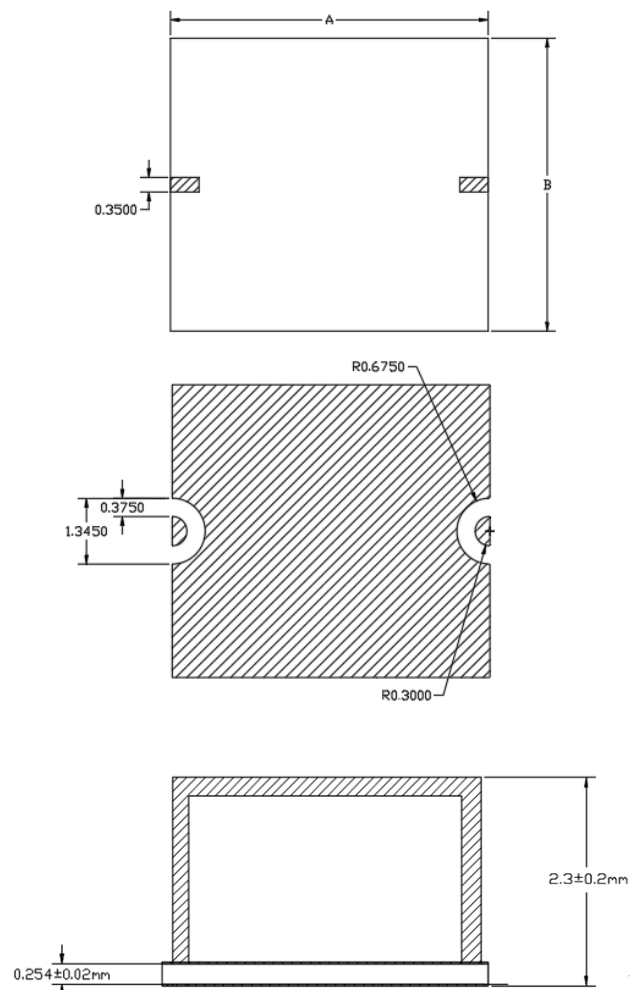
Features

- Small size
- Low loss, High rejection
- With shielding cover
- SMD Surface mounted
- Humidity level: MSL1
- Working temperature: -55 to +85°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.	SYTFBP14R125/R75-7SA			
1-2	Size	6mm*3.5mm*2.3mm			
1-3	Central Frequency f_0		14.15		GHz
1-4	Working Frequency	13.75		14.5	GHz
1-5	Central Loss		2.3		dB
1-6	Band Fluctuation		0.7	1.0	dB
1-7	Return Loss	12	15		dB
1-8	Rejection	11-12.8GHz	25	30	dBc
		16-20GHz	30	35	dBc
1-9	Power			33	dBm
1-10	Working temperature	-55		+85	°C
1-11	Storage temperature	-55		+125	°C
1-12	Output installation method	Surface mounted			

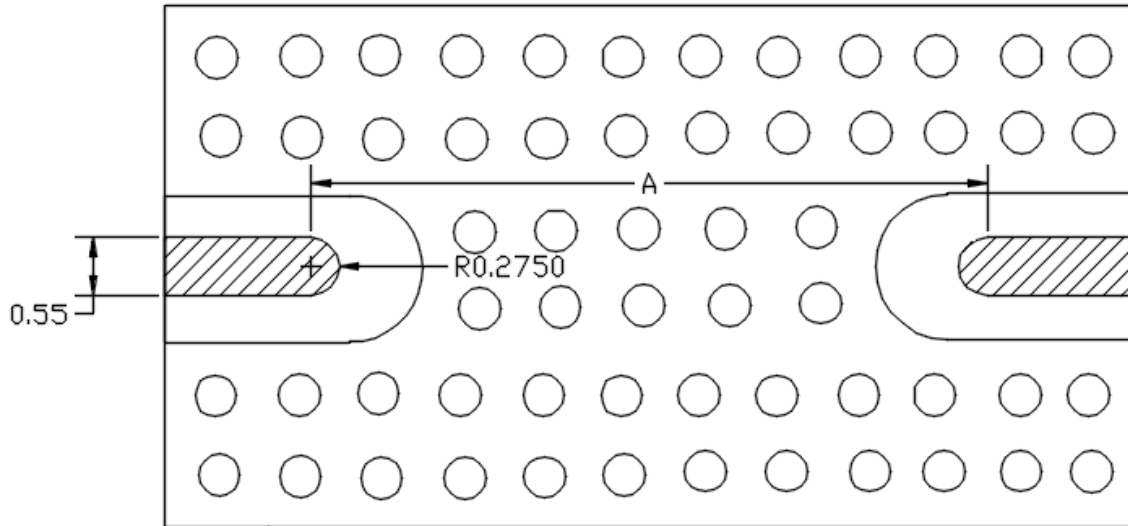
Dimensions

2-1	Dimension	See belowed picture (A、B dimension tolerance: $\pm 0.1\text{mm}$)
	<p>Front</p> <p>Rever</p>	
2-2	Size	A: 8.0mm B: 3.5mm (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
V1	20250303	✓

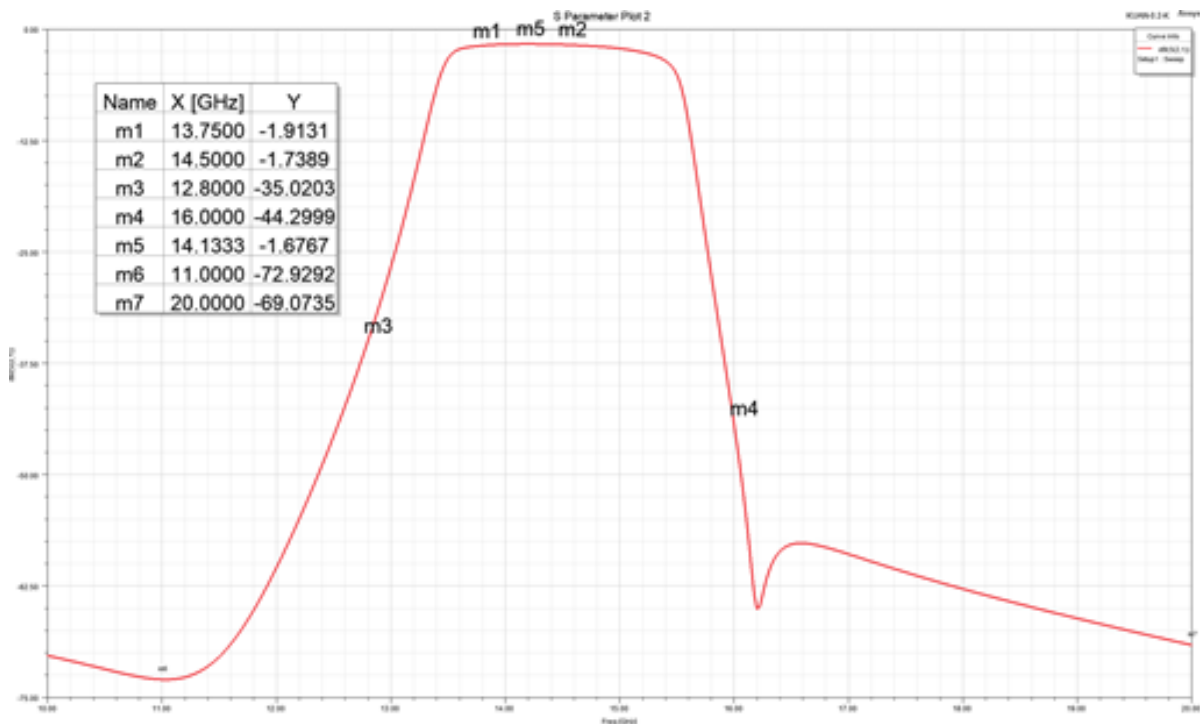
Recommended assembly drawing



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°C.

Simulation Curve:



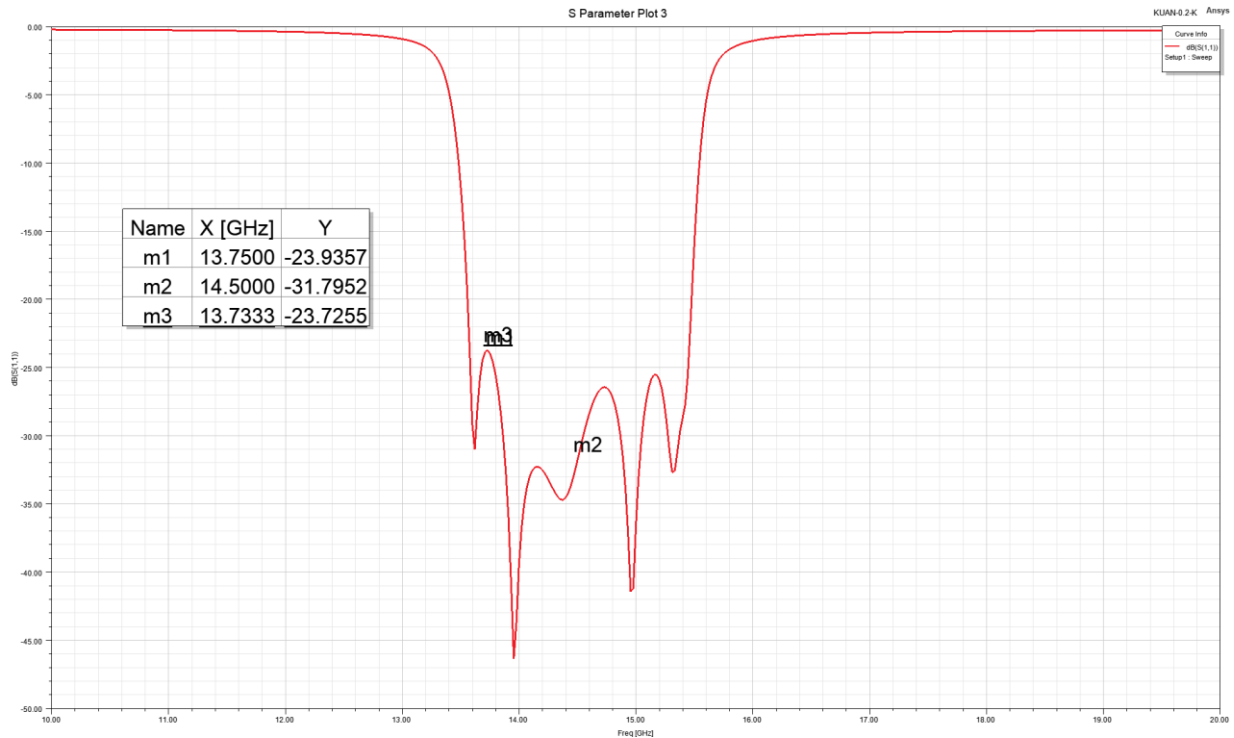
Insertion Loss -S21

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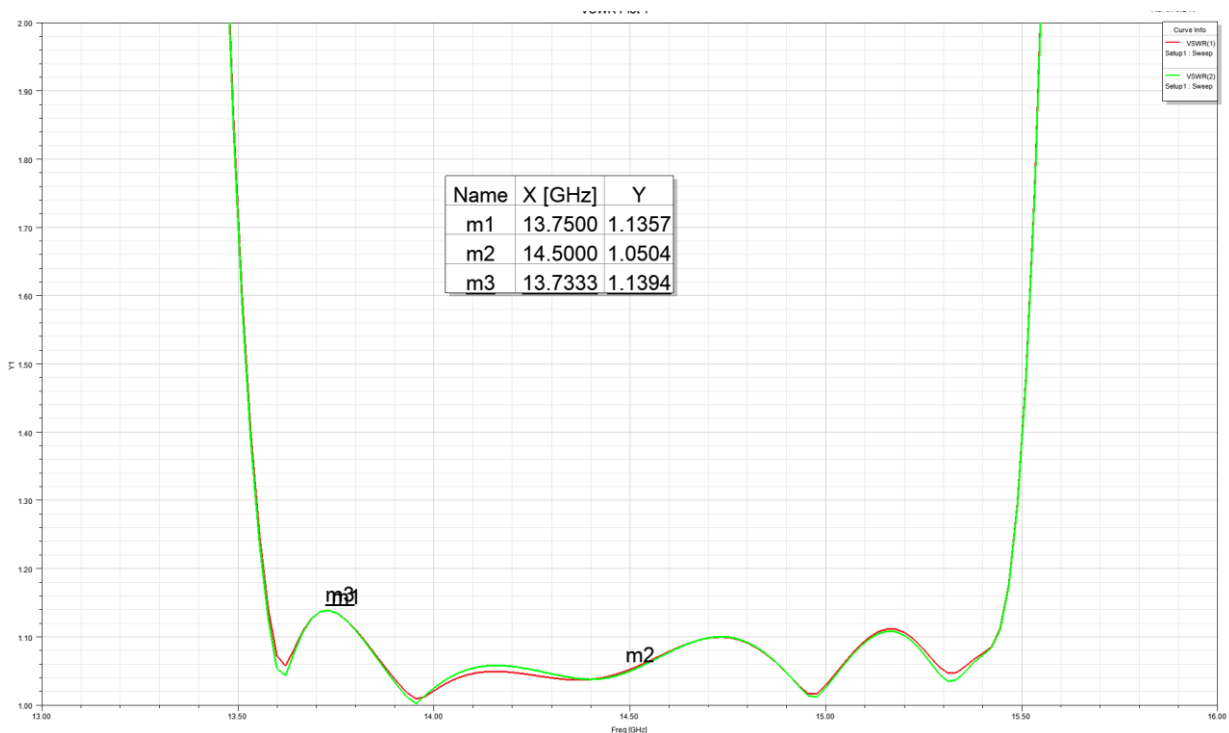
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For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com



Return Loss -S11



VSWR