

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.

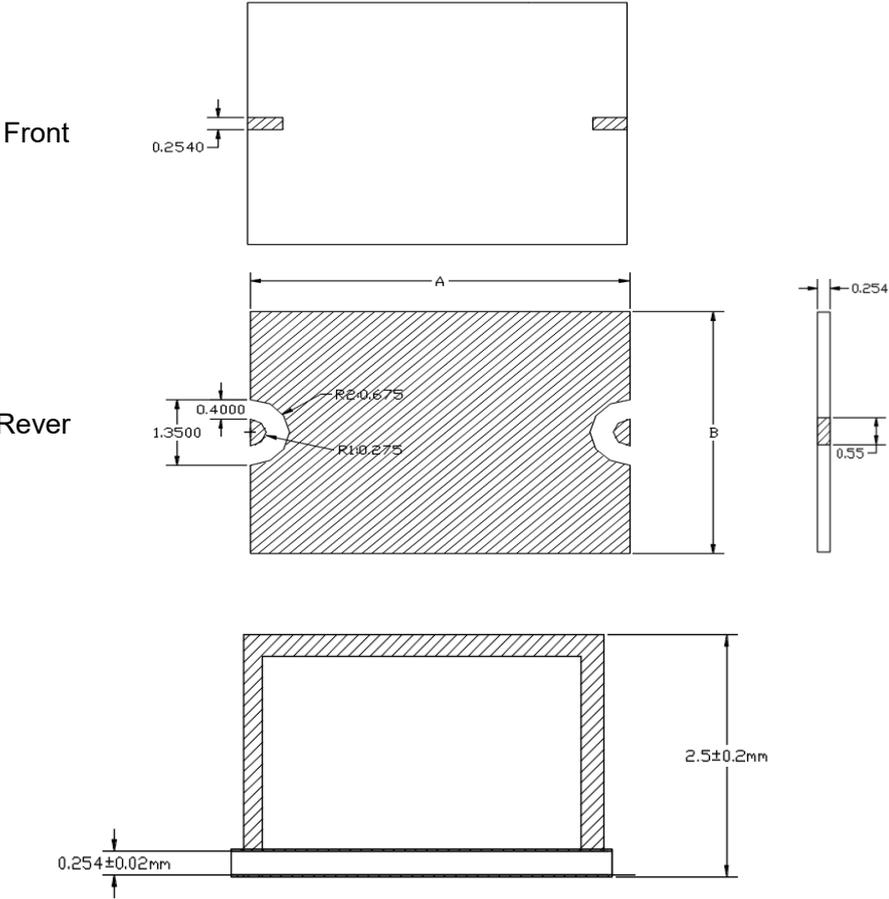
Features

- 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.	SYTFBP7R2/1R2-8JA			
1-2	Size	6.6mm*6.1mm*2.5mm			
1-3	Central Frequency f_0		7.2		GHz
1-4	Working Frequency	6.6		7.8	GHz
1-5	Central Loss		1.5	2.0	dB
1-6	Band Fluctuation		0.7	1.0	dB
1-7	Return Loss	12	15		dB
1-8	Rejection@DC-5.8GHz	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			

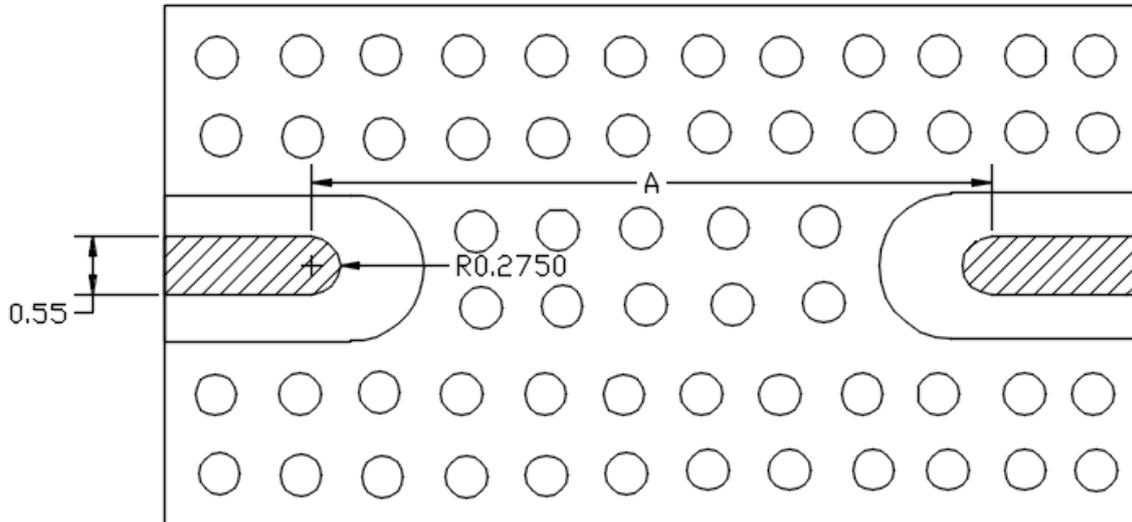
Dimensions

2-1	Dimension	See below picture (A、B dimension tolerance: $\pm 0.1\text{mm}$)
 <p>The drawing includes three views: <ul style="list-style-type: none"> Front View: Shows a rectangular component with a thickness of 0.2540 mm. Reverse View: Shows a rectangular component with dimensions A and B. It features a semi-circular notch on the left side with a radius of R0.675 and a depth of 0.4000 mm. The distance from the left edge to the start of the notch is 1.3500 mm. A smaller semi-circular notch on the right side has a radius of R1.0275 mm. A side view shows a thickness of 0.254 mm and a width of 0.55 mm. Bottom View: Shows a rectangular component with a thickness of $2.5 \pm 0.2\text{mm}$ and a width of $0.254 \pm 0.02\text{mm}$. </p>		
2-2	Size	A: 6.6mm B: 6.1mm (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	✓

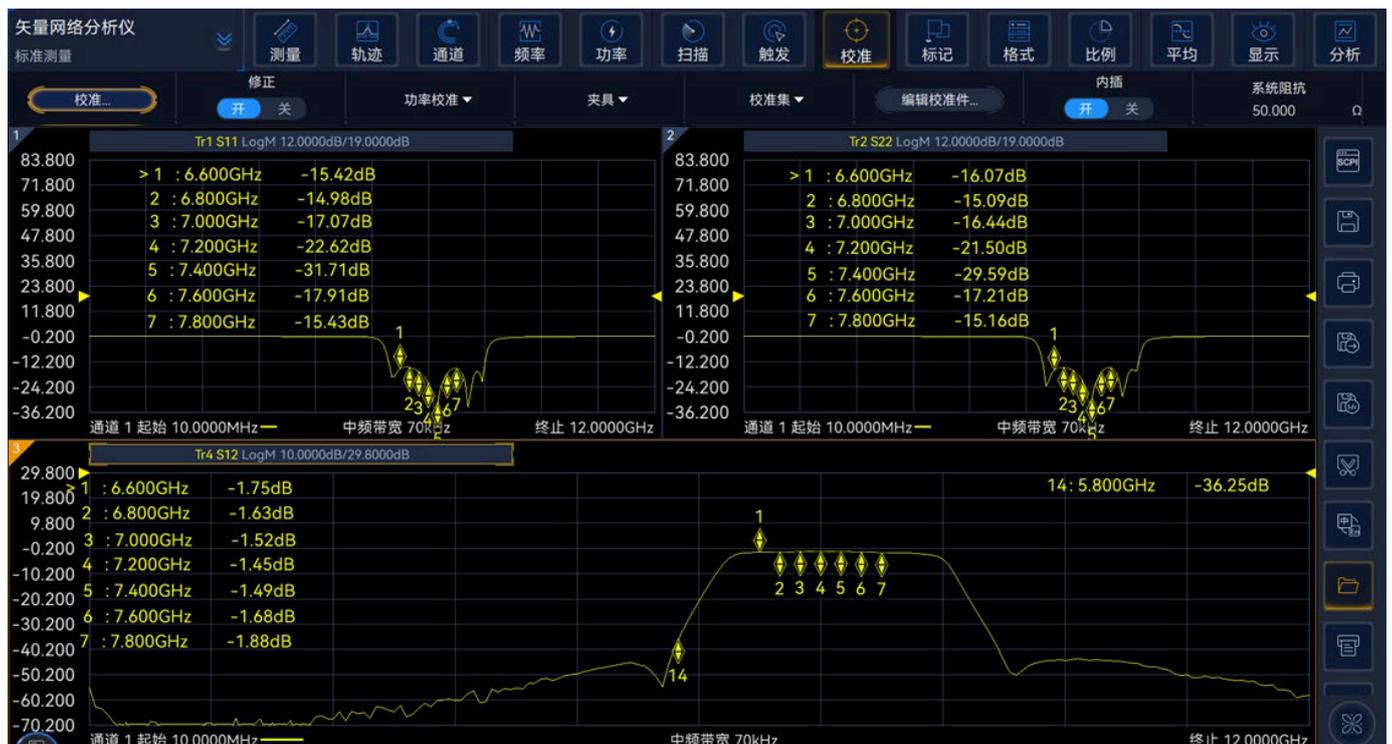
Recommended assembly drawing



Remark point:

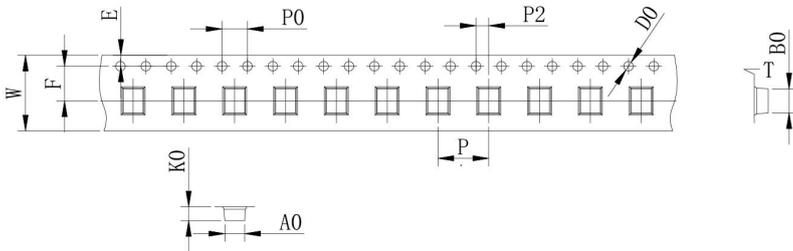
1. Testing Substrate material is Rogers4350B(Er=3.66),thickness is 0.254mm
2. Make sure there is enough solder on the bottom surface of the filter and ensure good grounding.
3. The maximum temperature during assembly is 250°C.

Test Curve:



Tape

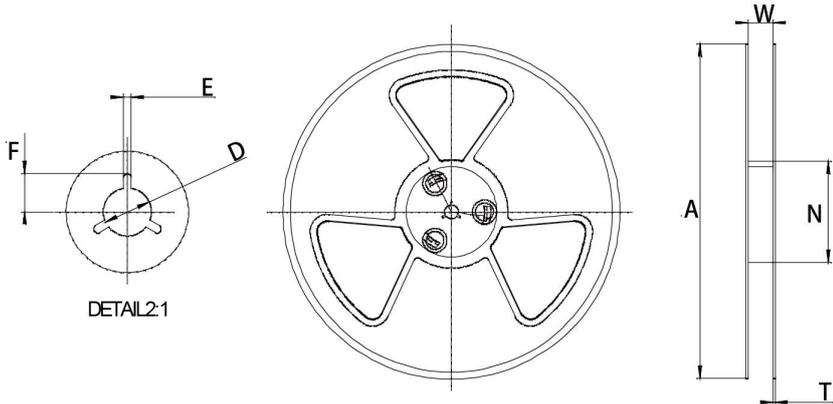
Feeding Direction
→



Notice:

- A.10 Sprocket hole pitch cumulative tolerance is 0.2mm.
- B. Carrier camber shall be not more than 1mm per 100mm through a length of 250mm.
- C. All dimensions meet EIA-418-B requirements.
- D. A0 & B0 measured as indicated.
- E. K0 measured from a place on the inside bottom of the pocket to top surface of carrier.
- F. Material: PE 100
- G. Thickness: 0.35±0.05mm
- H. 1800 units (maximum) / T&R

ITEM	W	A0	B0	K0	K1	P	F	E	D	P0	P2	t	7"
DIM(mm)	16.0	6.40	6.90	3.00		12.0	7.5	1.75	1.50	4.0	2.0	0.35	P/R
TOLE	+0.30 -0.30	+0.10 -0.10	+0.10 -0.00	+0.10 -0.10	+0.10 -0.10	+0.05 -0.05	1800pcs						



Symbol	Dimensions(mm)
W	16.5±0.4
A	177±0.5
N	63±0.3
T	1.8±0.2
E	2.1±0.3
F	10.75±0.3
D	13.5+0.5/-0.2

