

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.

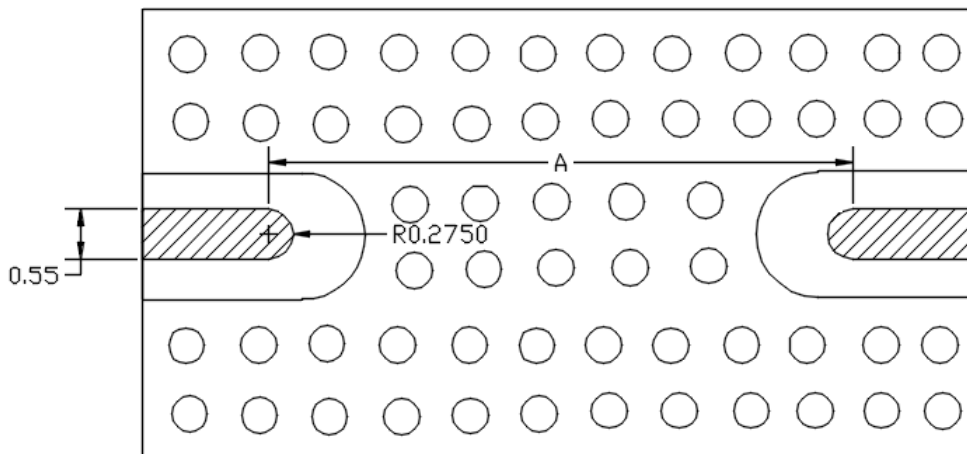
Features

- 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.		SYTFBP12/12-9QA-S			
1-2	Size		9.0mm*4.5mm*3.0mm			
1-3	Central Frequency f_0			12.0		GHz
1-4	Working Frequency		6.0		18.0	GHz
1-5	Central Loss			2.5	3.0	dB
1-6	Band fluctuation			1.5	2.0	dB
1-7	Return Loss		12	15		dB
1-8	Rejection	@DC-1.5GHz	30	35		dBc
		@20.5GHz	30	35		
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			

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:

