

Description

Yantel's surface mounted low-pass 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.

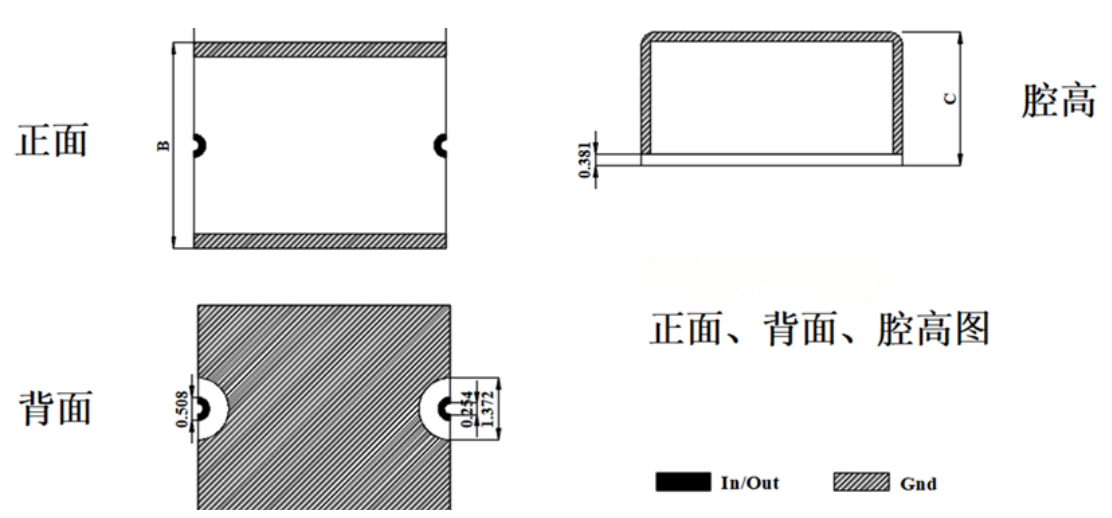
Features

- 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	Specifications
1-1	产品名称	Surface mounted low-pass filter
1-2	Model No.	SYTFL050XF9S
1-3	Cut-off Frequency f_c	4.8 GHz
1-4	Working Frequency	DC~4.8 GHz
1-5	Insertion Loss	≤2.5dB
1-6	High Side Rejection	≥35dB@6.0-12.0GHz;
1-7	VSWR	≤1.8
1-8	In/Output Impedance	50Ω
1-9	Output installation method	Surface mounted
1-10	Size	5.59mm*4.57mm*3.0mm
1-11	Working temperature	-45°C~+85°C
1-12	Storage temperature	-55°C~+125°C
1-13	Power	35dBm

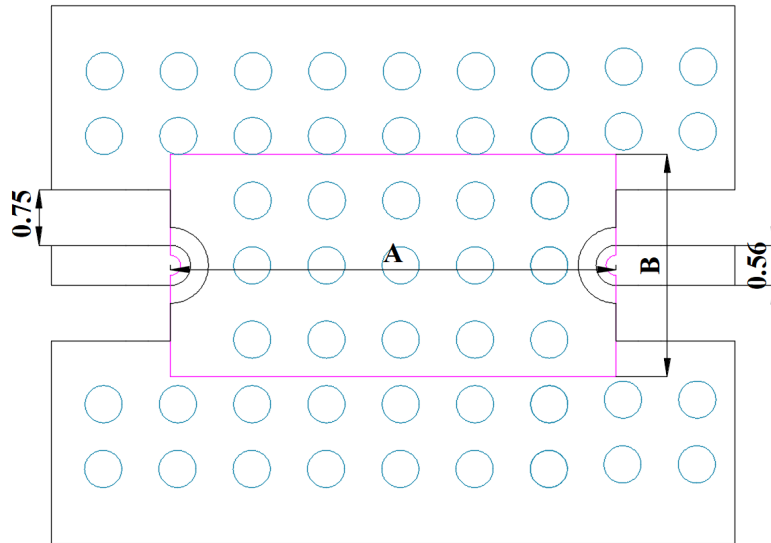
Dimensions

2-1	Dimension	See below picture (A、B dimension tolerance: $\pm 0.1\text{mm}$)
 <p>正面</p> <p>背面</p> <p>腔高</p> <p>正面、背面、腔高图</p> <p>In/Out Gnd</p>		
2-2	Size	A: 5.59mm B: 4.57mm C: 3.0mm (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
2-4	Surface treatment	Gold plating

Version status

Version No.	Version date	File status
A0	20260513	√

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:

