

Description

Yantel's surface mounted high-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: -45 to +85°C
- Characteristic Impedance: 50Ω
- Tape package
- Competitive price and suitable for large volume use

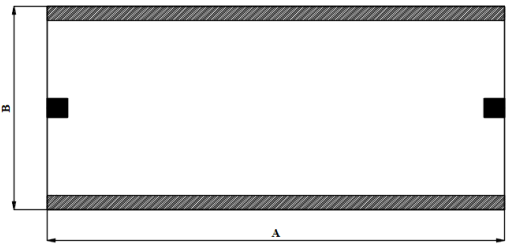
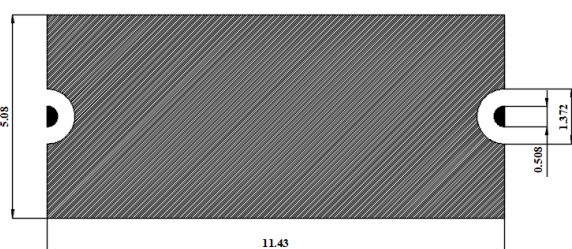

Technical Data (Normal temperature +25°C)

No.	Parameter	Specifications
1-1	Product Name	Surface mounted high-pass filter
1-2	Model No.	SYTFH080XHXS
1-3	Central Frequency f_0	14.25 GHz
1-4	Working Frequency	8.5~20.0 GHz
1-5	Central Loss	≤2.0dB
1-8	Band Fluctuation	≥30dB@DC-5.0GHz;
1-9	VSWRS	≤1.8
1-10	Input and Output Impedance	50Ω
1-11	Output installation method	Surface mounted
1-12	Size	11.43mm*5.08mm*3.0mm

环境参数

2-1	Operating Temperature	-45°C~+85°C
2-2	Storage temperature	-55°C~+125°C
2-3	Power	35dBm

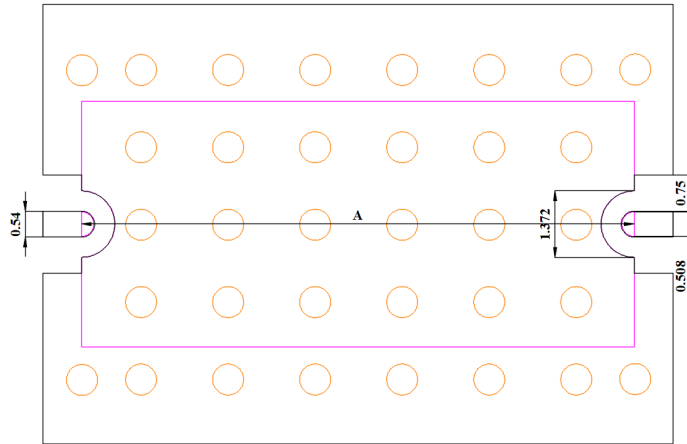
Dimensions

3-1	Dimension	See below picture (A、B、C dimension tolerance: $\pm 0.1\text{mm}$)
<p>TOP VIEW</p>  <p>BOTTOM VIEW</p>  <p>SIDE VIEW</p>  <p> In/Out GND </p>		
2-2	Size	A: 11.43mm B: 5.08mm 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
V2	20260414	√

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:

