

SYTFBP8R1/R8-6ID

Surface mounted bandpass filter

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)

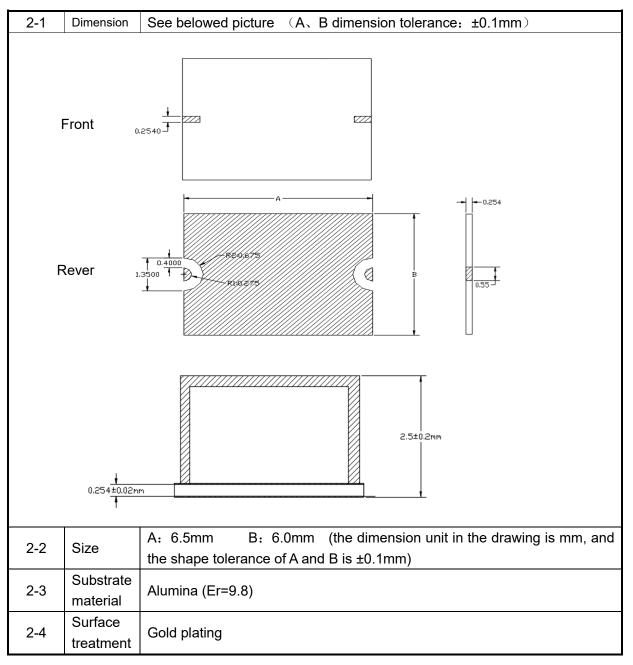
No.	Parameter	Min. Typical Max		Max.	Unit		
1-1	Model No.	SYTFBP8R1/R8-6ID					
1-2	Size	6.5mm*6.0mm*2.5mm					
1-3	Central Frequency f ₀		8.1 (
1-4	Working Frequency	7.7		8.5	GHz		
1-5	Central Loss		1.5	2.0	dB		
1-6	Band Fluctuation		0.7	1.0	dB		
1-7	Return Loss	12	15		dB		
1-8	Rejection@DC-5.8GHz	30	45		dBc		
1-9	Power			33	dBm		
1-10	Working temperature	-55		+85	°C		
1-11	Storage temperature	-55		+125	°C		
1-12	Output	Surface mounted					
	installation method						



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Dimensions



Version status

Version No.	Version date	File status
V1	20250121	\checkmark

 Yantel Corporation

 Add:
 No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China Tel: 86-755-8355-1886

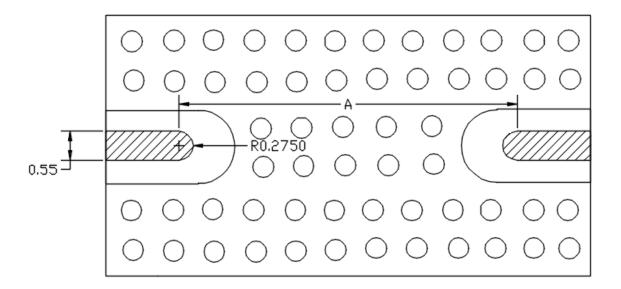
 Fax:
 86-755-8355-2533

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



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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:

矢量网络分 标 标准测量	析仪		▲ 轨迹 通道	 一次 频率 切率 	扫描 他	次	↓ 标记 格式		<l< th=""><th>☑</th></l<>	☑
⊖ S11		◯ S21	⊘ S12	<u> </u>	"		测量类			
1	Tr1 S	11 LogM 15.0000dB/2	27.0000dB		2	Tr2 S22 Log	gM 15.0000dB/31.0000	dB		
102.000 87.000	1 : 6.600)GHz -0.73c	IB > 8 : 7.800GHz	-24.90dB	91.000	1 : 6.600GHz	-0.69dB >	8 : 7.800GHz	-30.18dB	SCPI
72.000	2 : 6.800			-16.38dB	76.000	2 : 6.800GHz	-0.000D	9 : 8.100GHz	-16.72dB	
57.000	3 : 7.000 4 : 7.200				61.000	3 : 7.000GHz	-1.100D	10 : 8.500GHz 11 : 8.800GHz	-17.62dB -16.08dB	
42.000	5 : 7.400		B 12:9.000GHz	-2.90dB	46.000	4 : 7.200GHz 5 : 7.400GHz	-2.270B	12:9.000GHz	-2.90dB	
27.000	6 : 7.600		dB 13: 5.800GHz	-0.67dB	< 31.000 ►	6 : 7.600GHz		13: 5.800GHz	-0.60dB	Ģ
12.000	7 : 7.700	GHz -23.950	dB		16.000	7 : 7.700GHz	-26.90dB			
-3.000				()	-14.000			8		Þ
-33.000			13 1234	1	-29.000		13	1234	2	
-48.000	道1起始 10.000		タ 10 夕 频帯宽 70kHz	· 终止 12.0000GH	-44.000	1 起始 10.0000MHz		[™] 9 1011 ≋ 70kH2	终止 12.0000GHz	ð
3		12 LogM 10.0000dB/2		≥± 12.0000GH	2 进退		- 中秋市	a /okriz	STT 12.0000GH2	
29.800	: 6.600GHz	-27.93dB 7 : 7.	_				>	13: 5.800GHz	-42.84dB	\mathbb{R}
19.800	: 6.800GHz	-22.62dB8 : 7.						10.0.0000112	42.0448	
9.800	: 7.000GHz	-16.30dB9 : 8.								₩ L
-10.200	: 7.200GHz	-8.88dB 10:8.								
-20.200 5	: 7.400GHz	-2.97dB 11: 8.8	800GHz -3.24d 000GHz -14.87			₹ \$ 5 678 9	10 11			þ
-30.200 6	: 7.600GHz	-1.69dB 12:9.	000GHZ - 14.67	dB	13	\$ 3 T	12			
-40.200					j i	2				Ŧ
-50.200									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-70.200										8
通	道1起始10.0000	MHz	•		中频带宽 70kH	z			终止 12.0000GHz	
111	(进行功能搜索	Q	🕛 通道1 S12 修正:开 持	空制:本地 参考:内部					2025-02-19	9 10:04:38

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