

**SAW Filter Process Report**  
**SF4654**  
**(70.0MHz 1.3MHz BW SAW Filter)**

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# SF4654

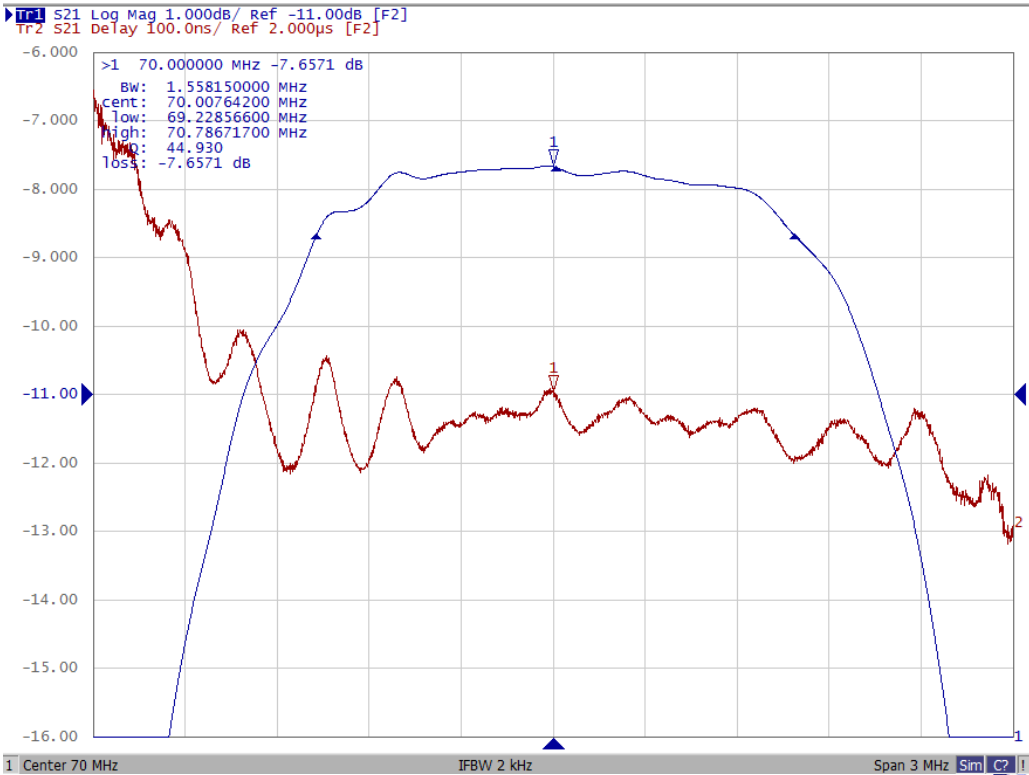
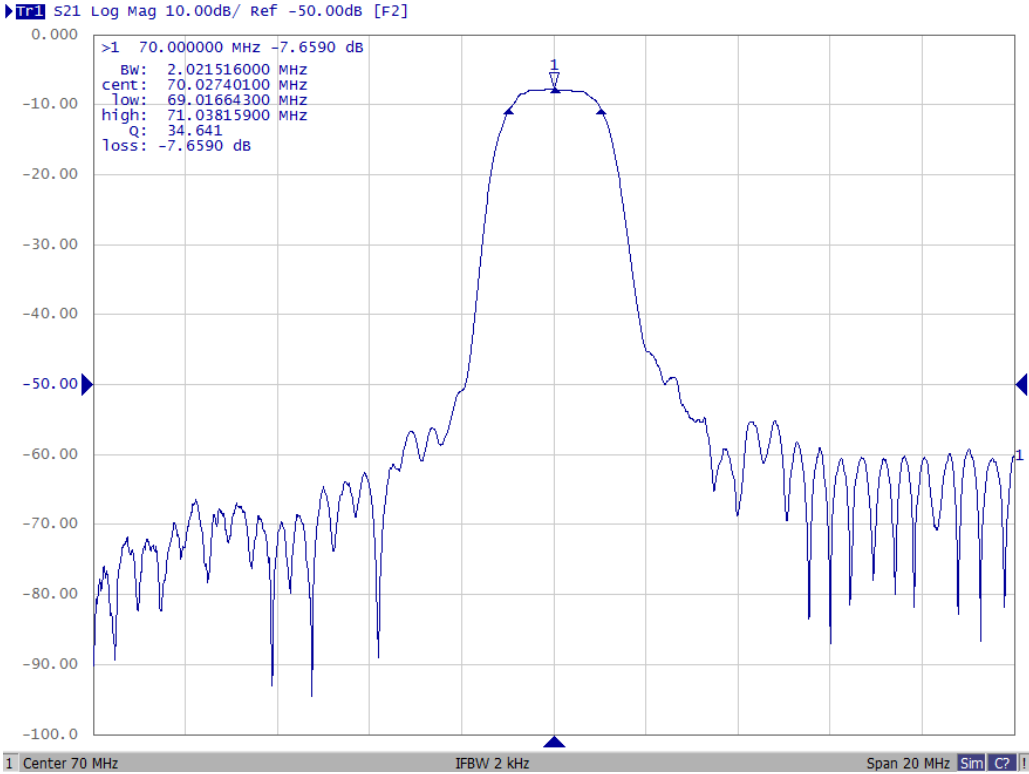
## ♣ Specifications

	Unit	Min	Typical	Max	Comments
Center Frequency, Fc	MHz		70		
Insertion Loss (IL) at Fc	dB		7.6	8.25	
1dB Bandwidth	MHz	1.3	1.56		
3dB Bandwidth	MHz	2.0	2.02		
40dB Bandwidth	MHz		4.15	4.25	
Amplitude Ripple	P-P dB		0.7	1.0	at Fc $\pm$ 0.7MHz
Group delay Variation	P-P nsec		130	340	at Fc $\pm$ 0.7MHz
Phase Linearity	P-P deg		6	8	at Fc $\pm$ 0.7MHz
Absolute Group Delay	us		2.0		
Temp Coefficient	PPM/°C		-23		
In/Out Return Impedance	Ohm	50ohm-50ohm Unbalance			
Package	mm <sup>3</sup>	13.3x6.5x2.0			

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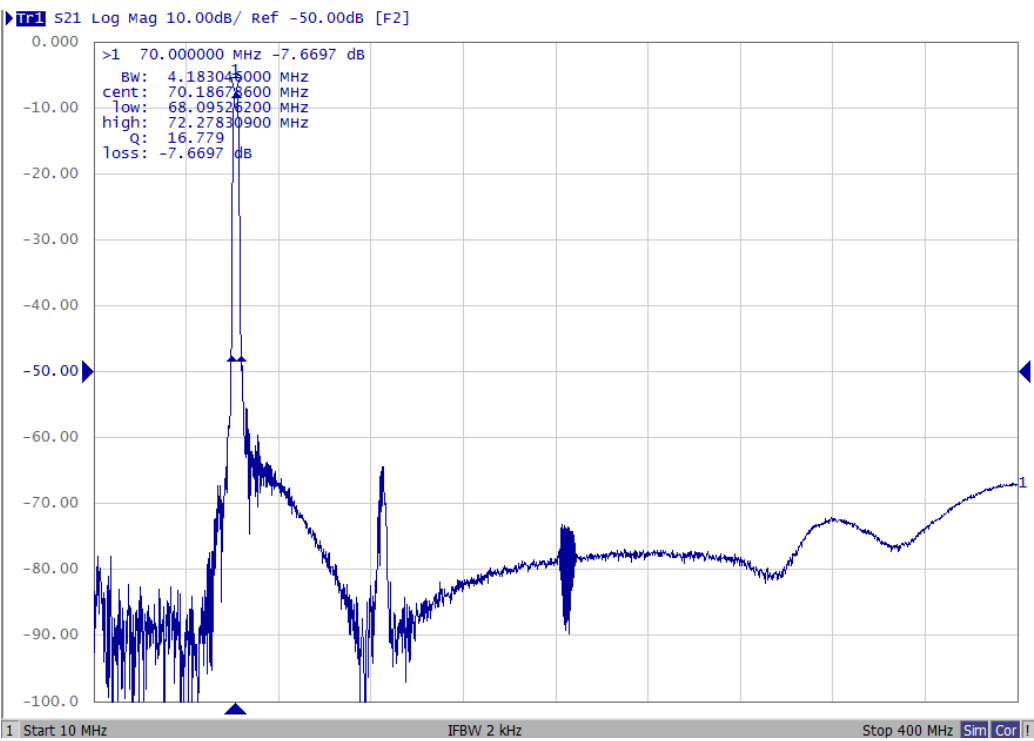
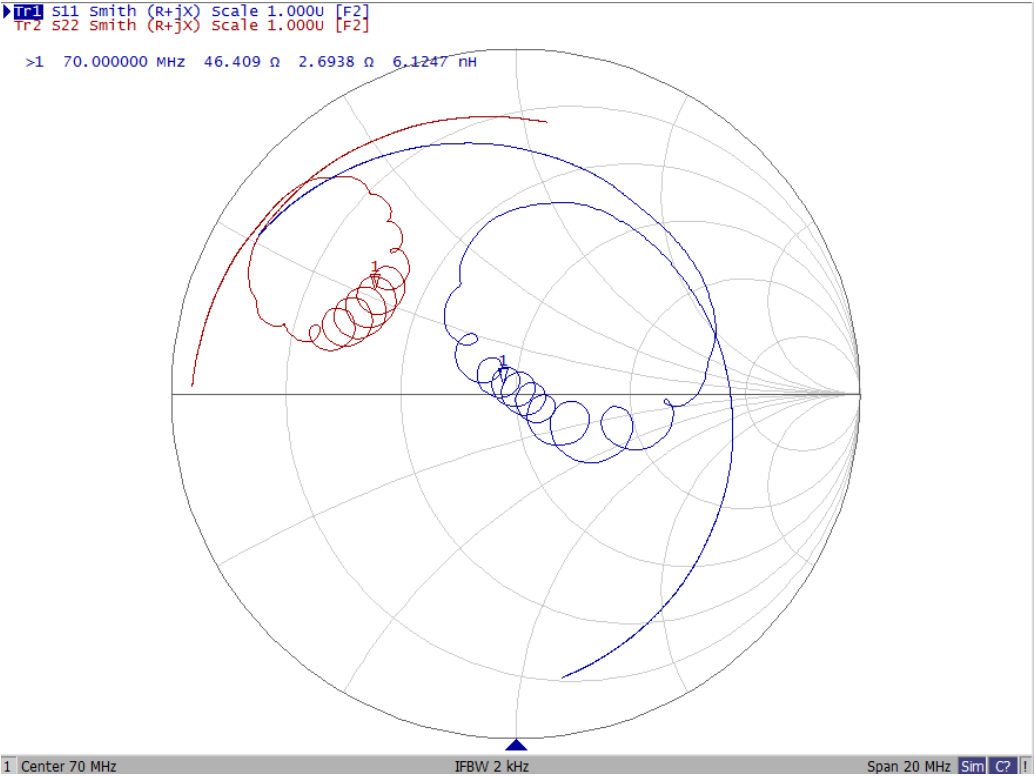
## Frequency response



# SF4654



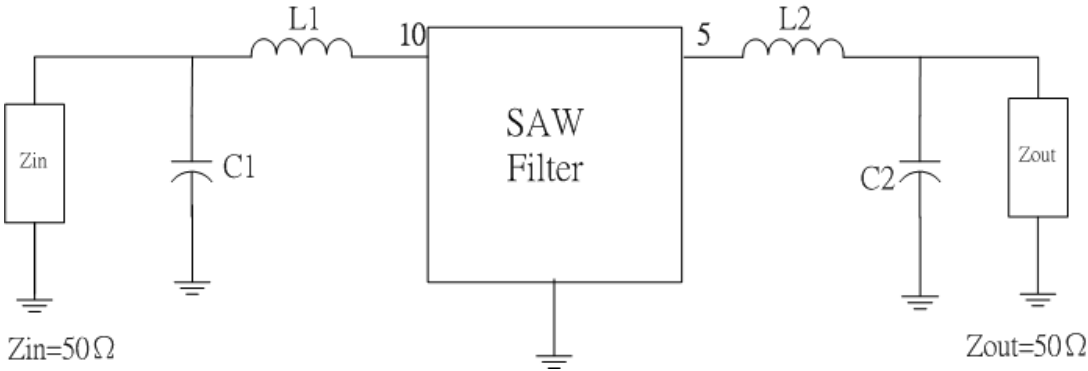
## Frequency response



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♣ Matching Circuit

- MC configuration should be same as that of 854654.
- MC values can be different.

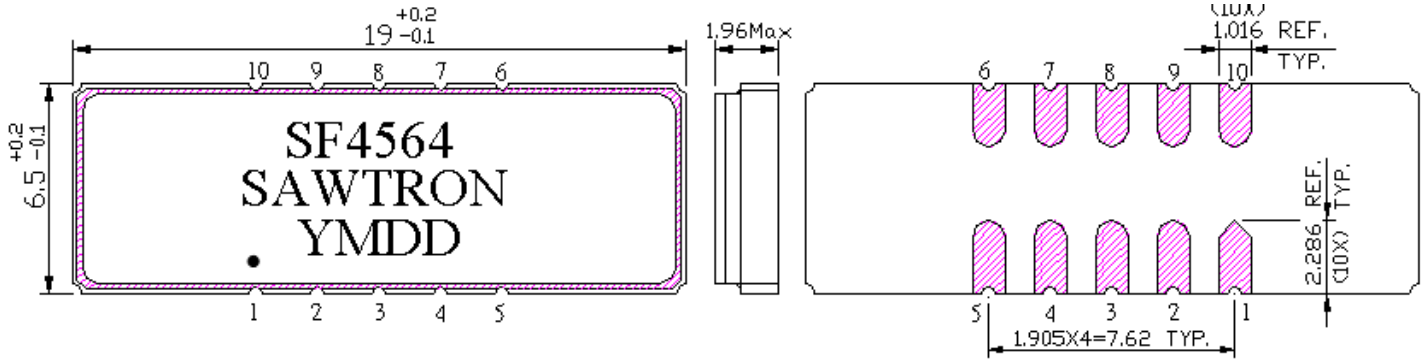


$L1 = 100\text{nH}$   $L2 = 100\text{nH}$   $C1 = 100\text{pF}$   $C2 = 56\text{pF}$

**SF4654**

PKG 19x6.5 mm<sup>2</sup>

Input + : 10  
Output + : 5  
Ground : others



All tolerances are  $\pm 0.15$ mm