

SAW Filter 324.0MHz
Part No: MP05296

Model: TB0901A
Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	324	-
Insertion Loss IL	dB	-	11.5	13.5
-1dB bandwidth	MHz	30	32	-
Passband Ripple Fc ± 11MHz	dB	-	0.4	1.0
Attenuation: (Reference level from Min IL)				
10MHz ~ 251MHz	dB	40	55	
251MHz ~ 280MHz	dB	40	50	
370MHz ~ 435MHz	dB	40	48	
435MHz ~ 595MHz	dB	40	55	
595MHz ~ 705MHz	dB	30	36	
705MHz ~ 1000MHz	dB	40	50	
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Narrow band Response: (span 200MHz)

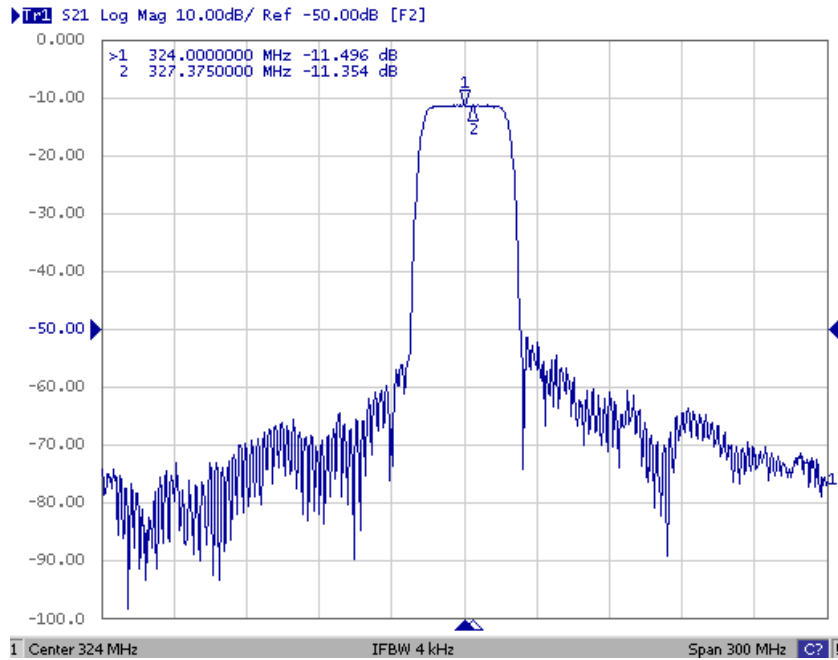


Fig. 1. Horizontal: 20MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Time Delay response:

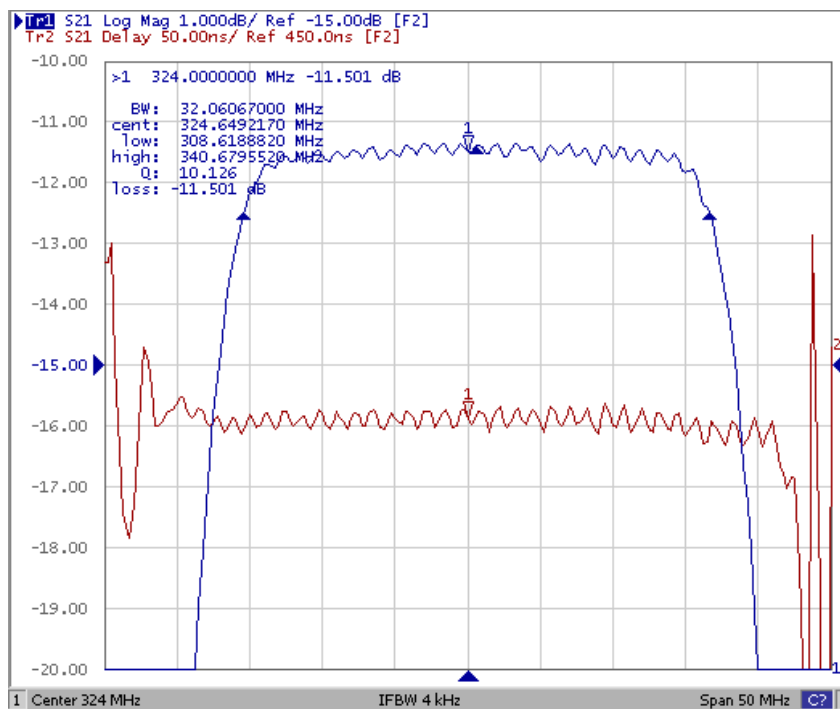
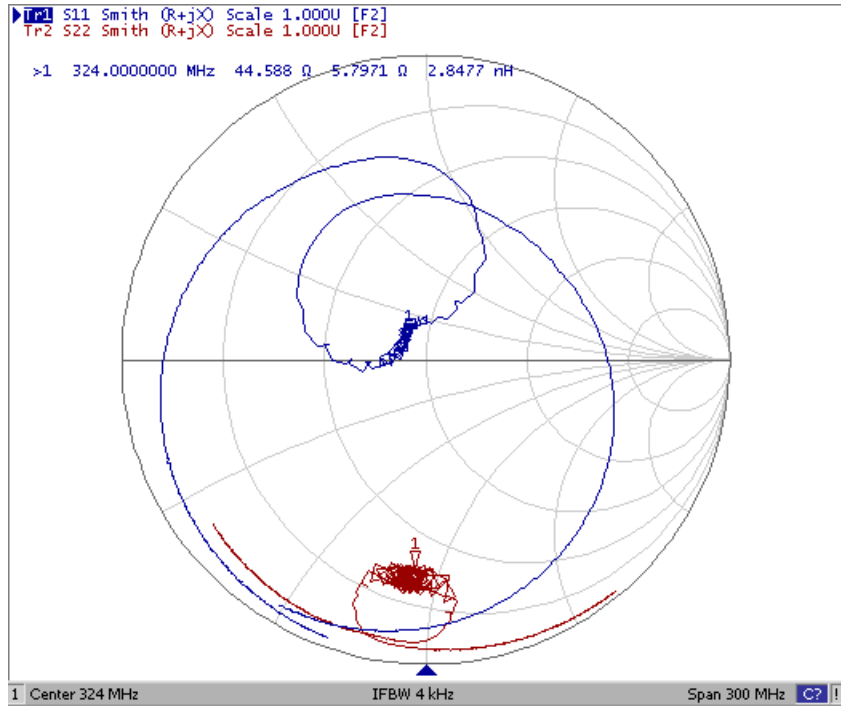


Fig. 2. Horizontal: 5MHz / Div, Vertical: 1dB / Div, Vertical: 50ns / Div

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3. Smith Chart:



4. Wide band Response: (span 1000MHz)

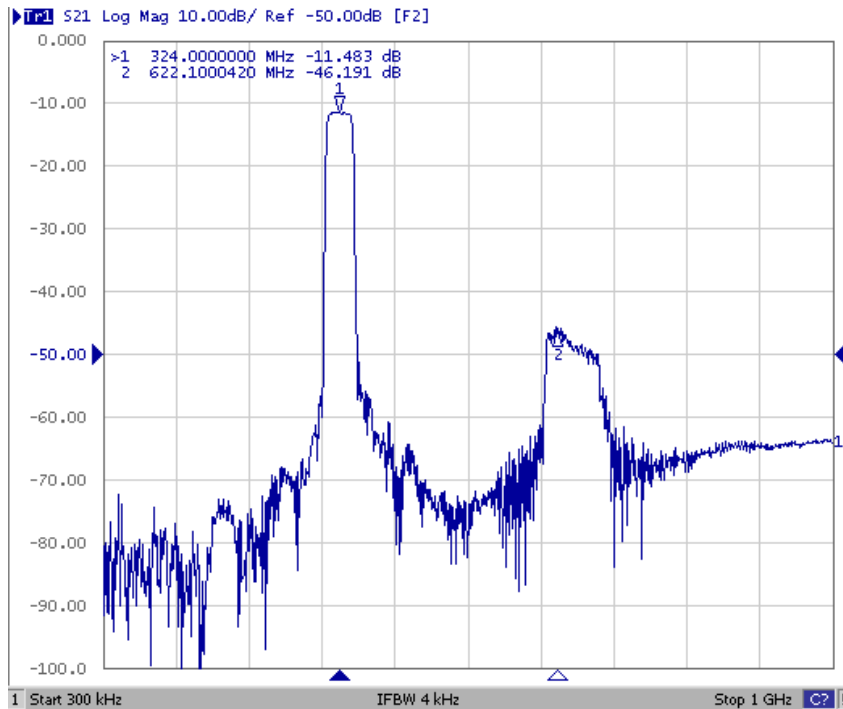
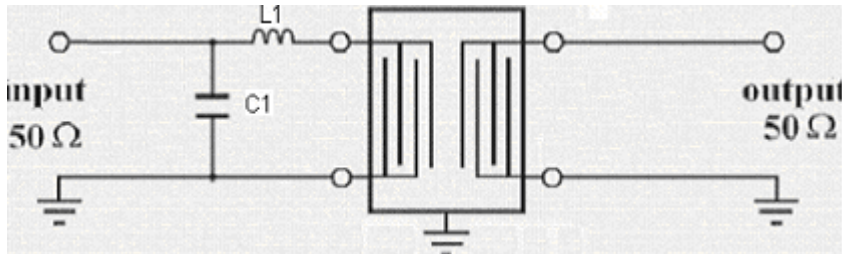


Fig. 4. Horizontal: 100MHz / Div, Vertical: 10dB / Div

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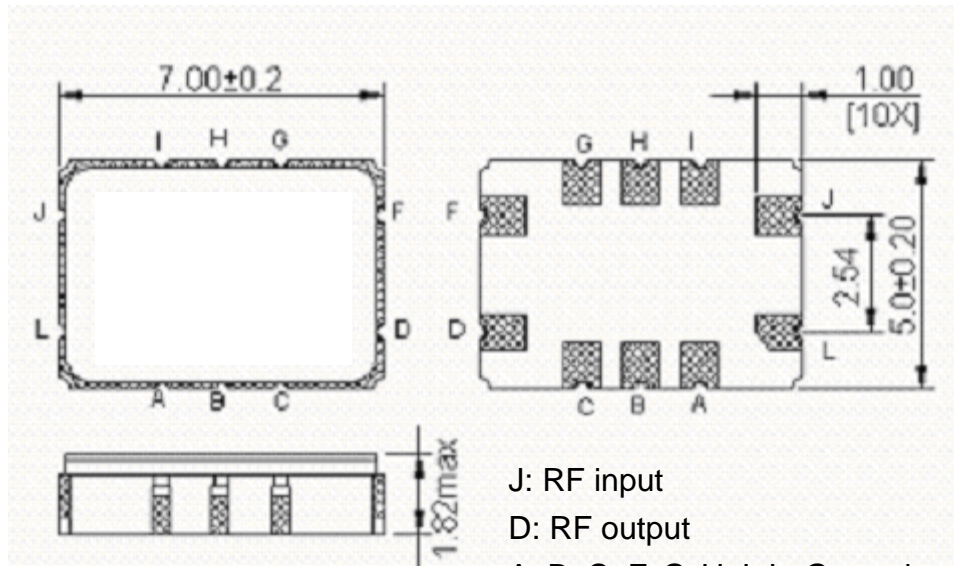
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D. MATCHING CIRCUIT:



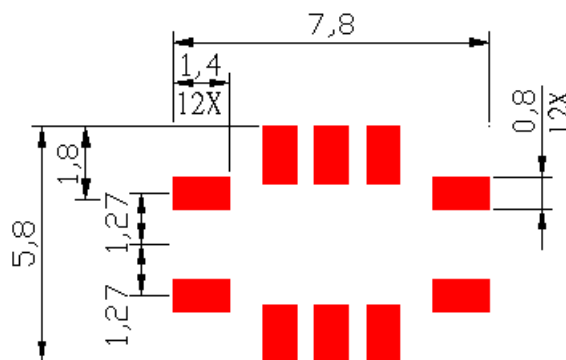
$L1 = 36\text{nH}$ $C1 = 10\text{pF}$

E. OUTLINE DRAWING:



J: RF input
 D: RF output
 A, B, C, F, G, H, I, L: Ground
 Unit: mm

F. PCB FOOTPRINT:

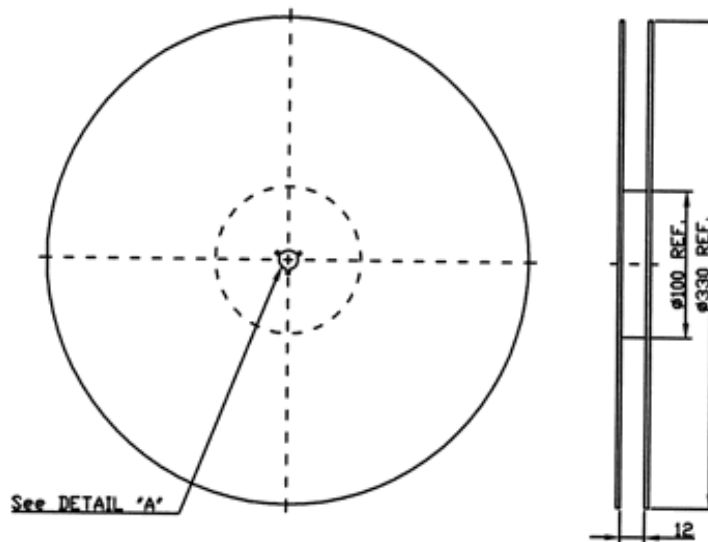


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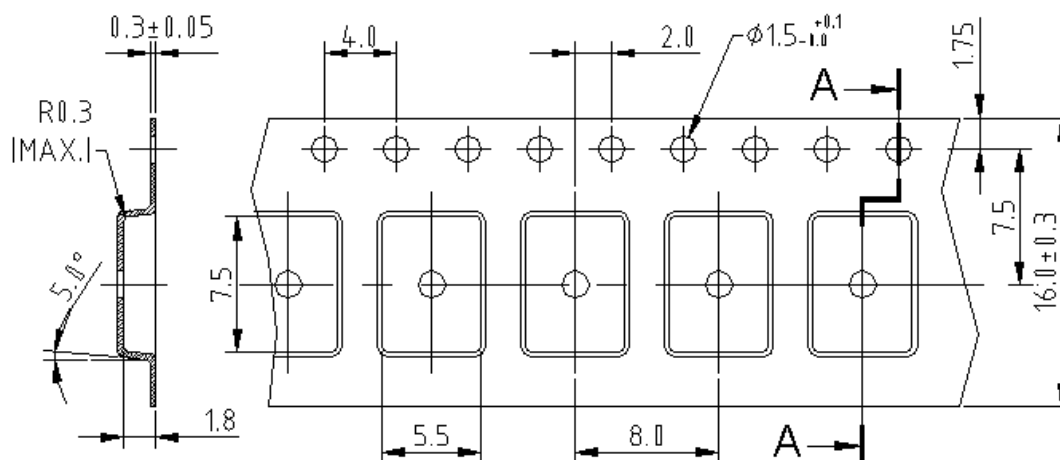
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

