

SAW Filter 294.20MHz
Part No: MP05888

Model: TB0991A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -55°C to 125°C
2. Storage temperature range: -55°C to 125°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	293.9	294.2	294.5
Insertion Loss IL	dB	-	18.6	20.0
1dB Band Width	MHz	20.5	22	
40dB Band Width	MHz		28.0	28.5
Amplitude Ripple Fc ± 9.0MHz	dB	-	0.5	1.0
Group Delay Ripple Fc ± 9.0MHz	ns	-	45	200
Absolute Group Delay at Fc	us	-	0.6	1.6
Attenuation (Reference level from minimum Insertion loss)				
Fc ± 15MHz	dB	39	45	-
Fc ± 31MHz	dB	45	50	-
Temperature Coefficient	ppm/°C	-	-23	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 150MHz)

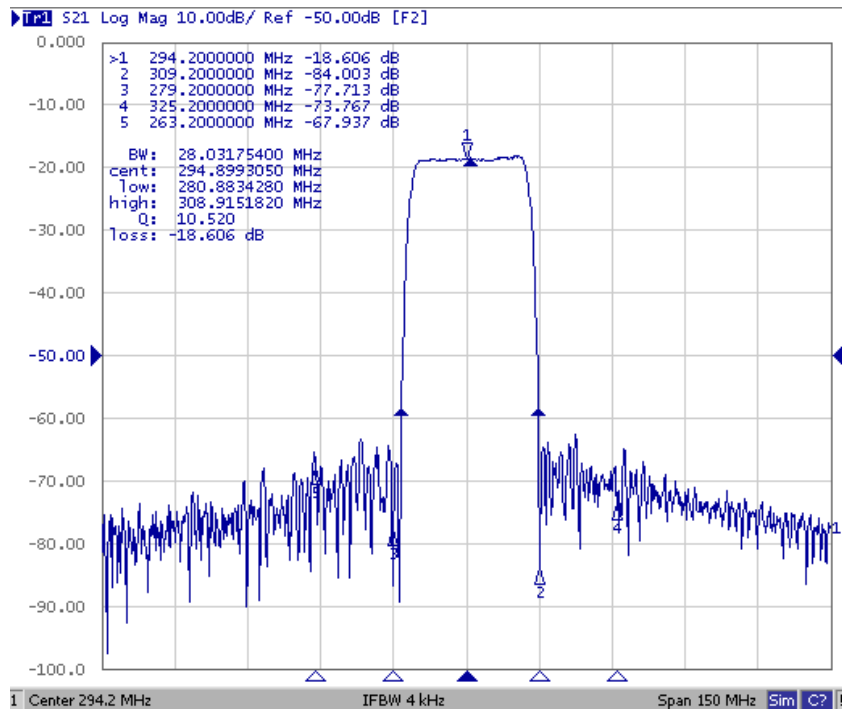


Fig. 1. Horizontal: 15MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Time Delay response:

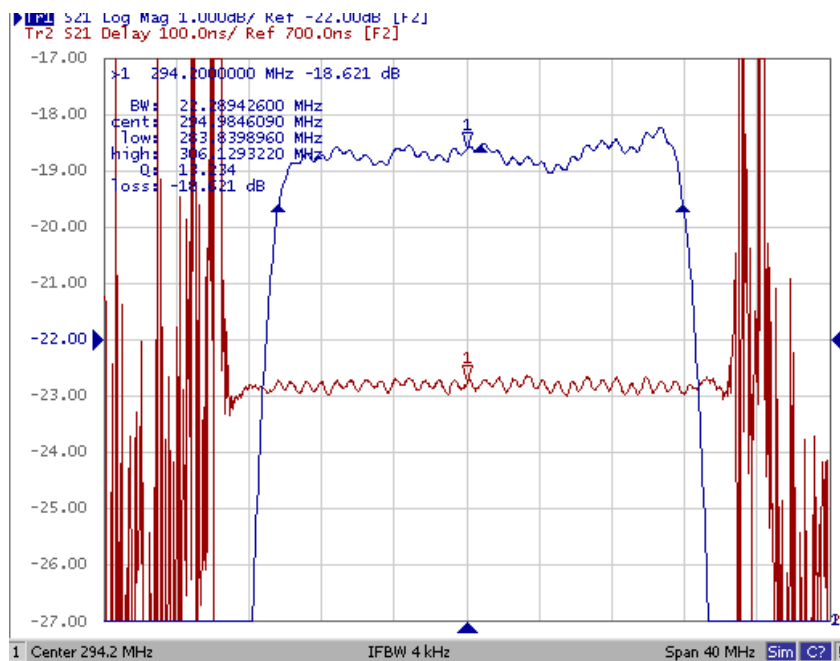
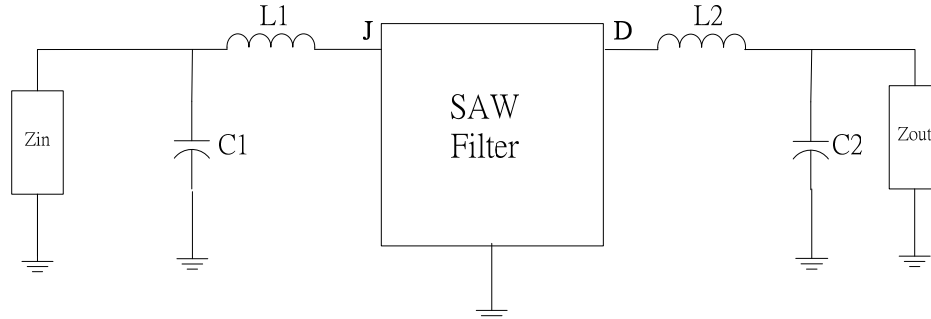


Fig. 2. Horizontal: 4MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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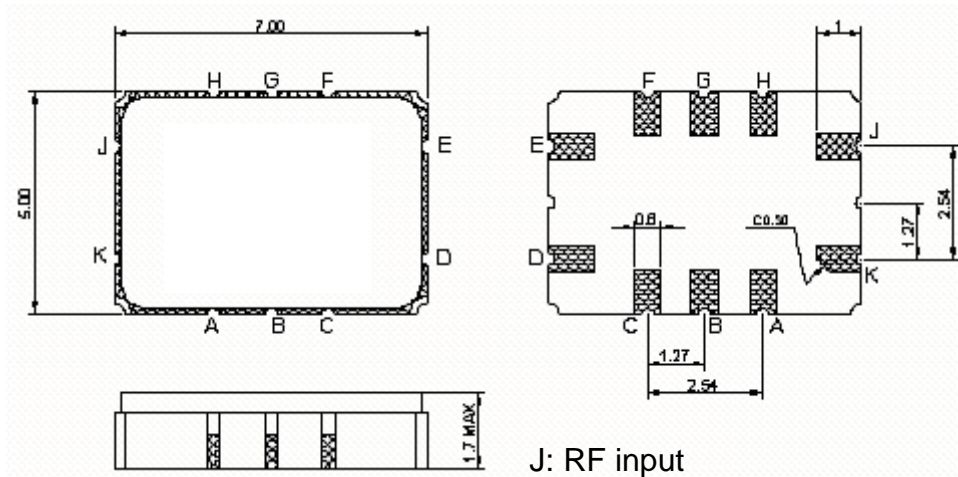
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D. MATCHING CIRCUIT:



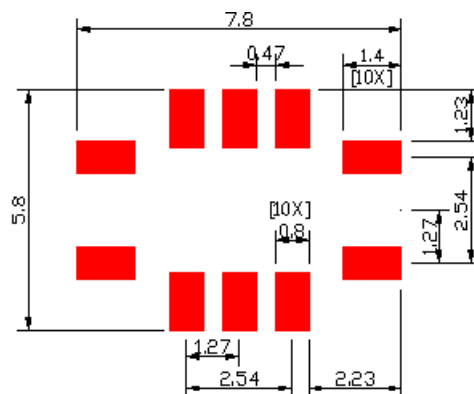
$L1 = 24\text{nH}$ $L2 = 27\text{nH}$ $C1 = 22\text{pF}$ $C2 = 15\text{pF}$

E. OUTLINE DRAWING:



J: RF input
 K: RF input ground
 D: RF output
 E: RF output ground
 A, B, C, F, G, H: Ground
 Unit: mm

F. PCB FOOTPRINT:

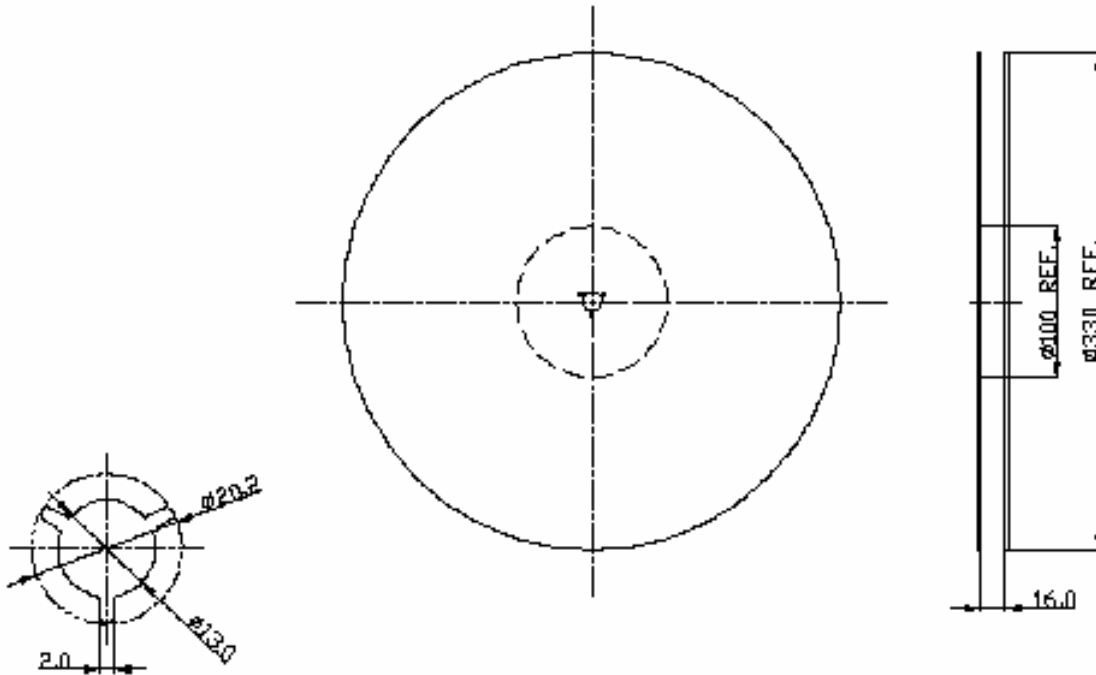


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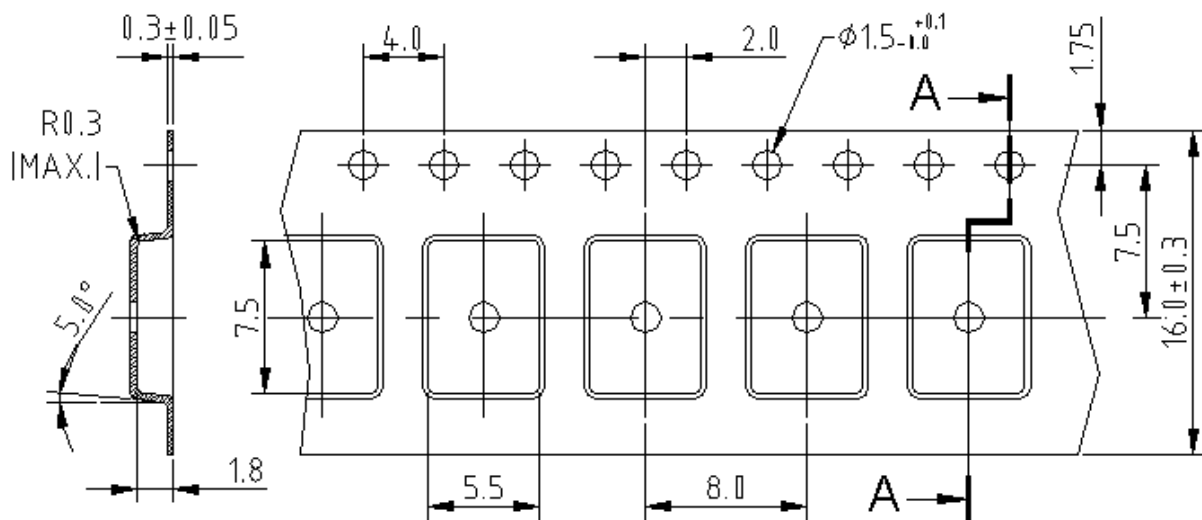
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

