

SAW Filter 37.8MHz

Model: TB1045A

Part No: MP05516

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -10°C to 60°C
2. Storage temperature range: -40°C to 80°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	37.8	-
Insertion Loss IL	dB	-	18.5	20.0
1dB Band Width	MHz	-	5.8	-
40dB Band Width	MHz	-	9.3	10.5
Amplitude Ripple Fc $\pm$ 2.5MHz	dB	-	0.6	1.0
Attenuation (Reference level from typical Insertion loss)				
Fc $\pm$ 10.5MHz ~ Fc $\pm$ 14MHz	dB	40	45	
Fc $\pm$ 14MHz ~ Fc $\pm$ 20MHz	dB	45	50	
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 60MHz)

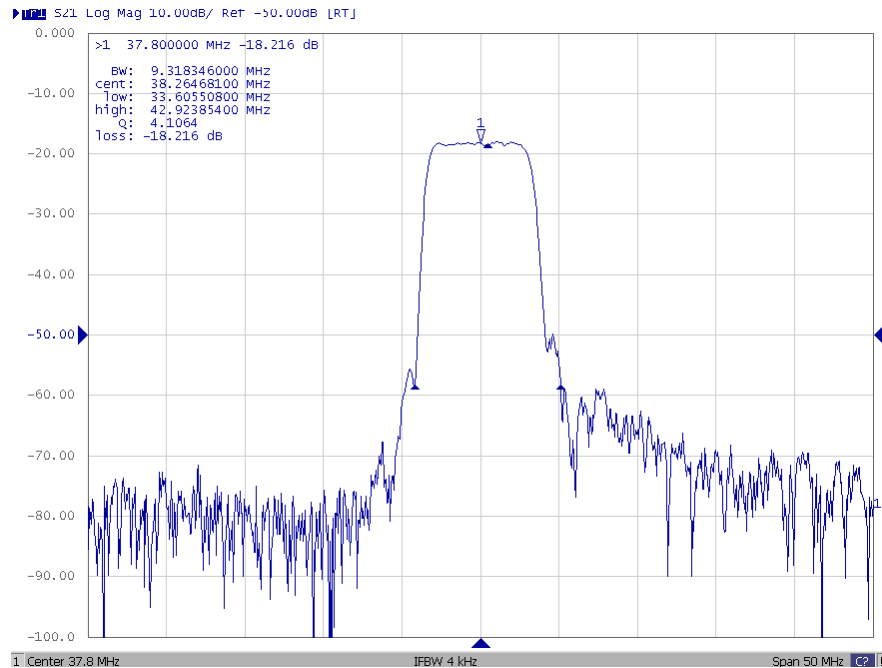


Fig. 1. Horizontal: 5MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Time Delay response:

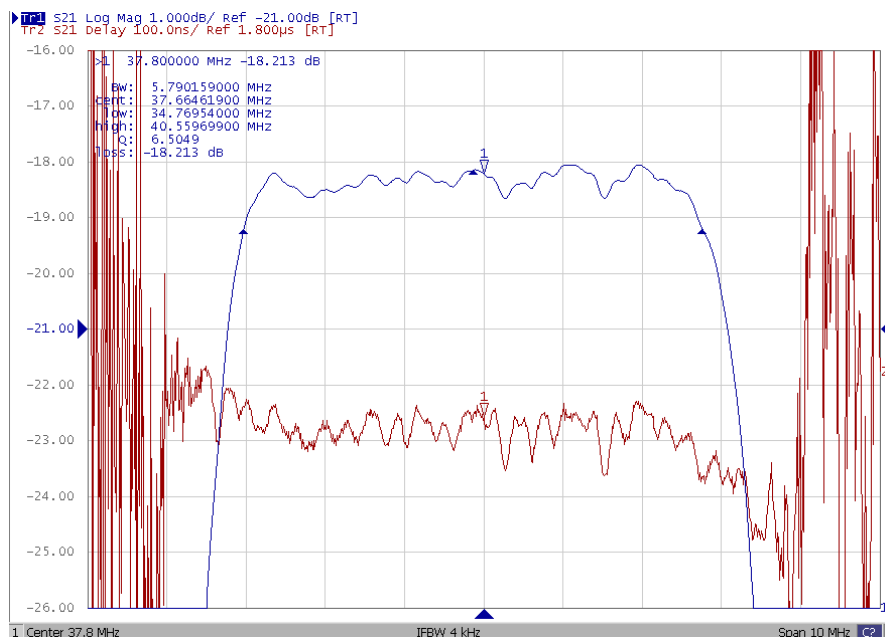
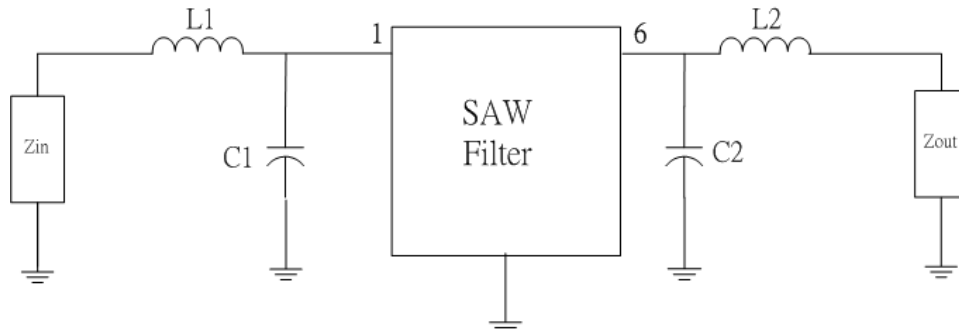


Fig. 2. Horizontal: 1.0MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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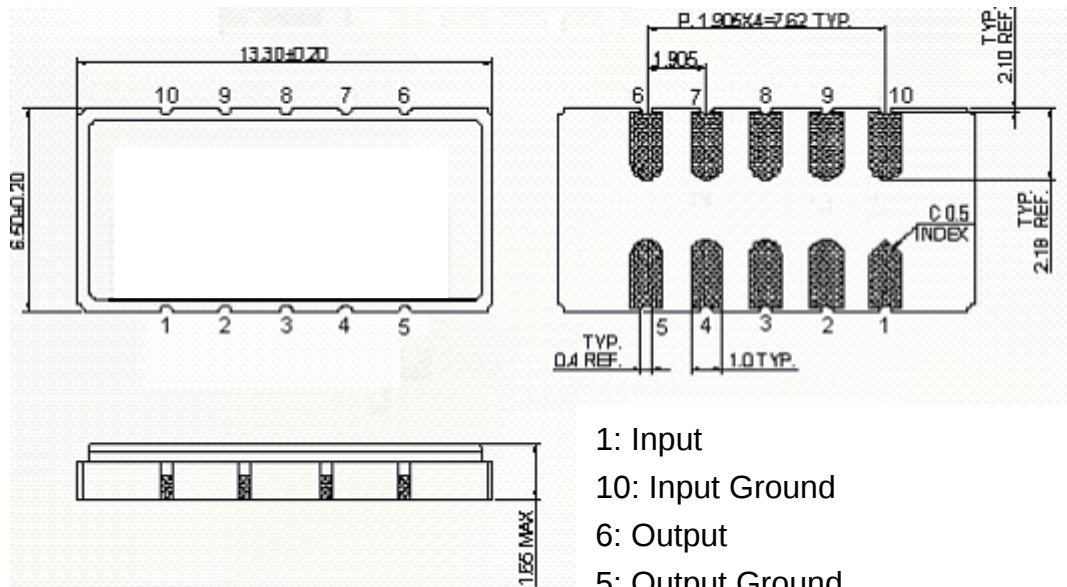
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D. MATCHING CIRCUIT:



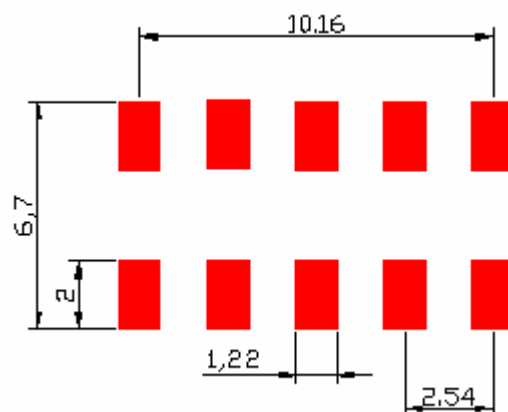
$L1 = 680\text{nH}$, $L2 = 82\text{nH}$, $C1 = 4.7\text{pF}$, $C2 = 4.7\text{pF}$

E. OUTLINE DRAWING:



1: Input
 10: Input Ground
 6: Output
 5: Output Ground
 2, 3, 4, 7, 8, 9: Ground
 Unit: mm

F. PCB FOOTPRINT:

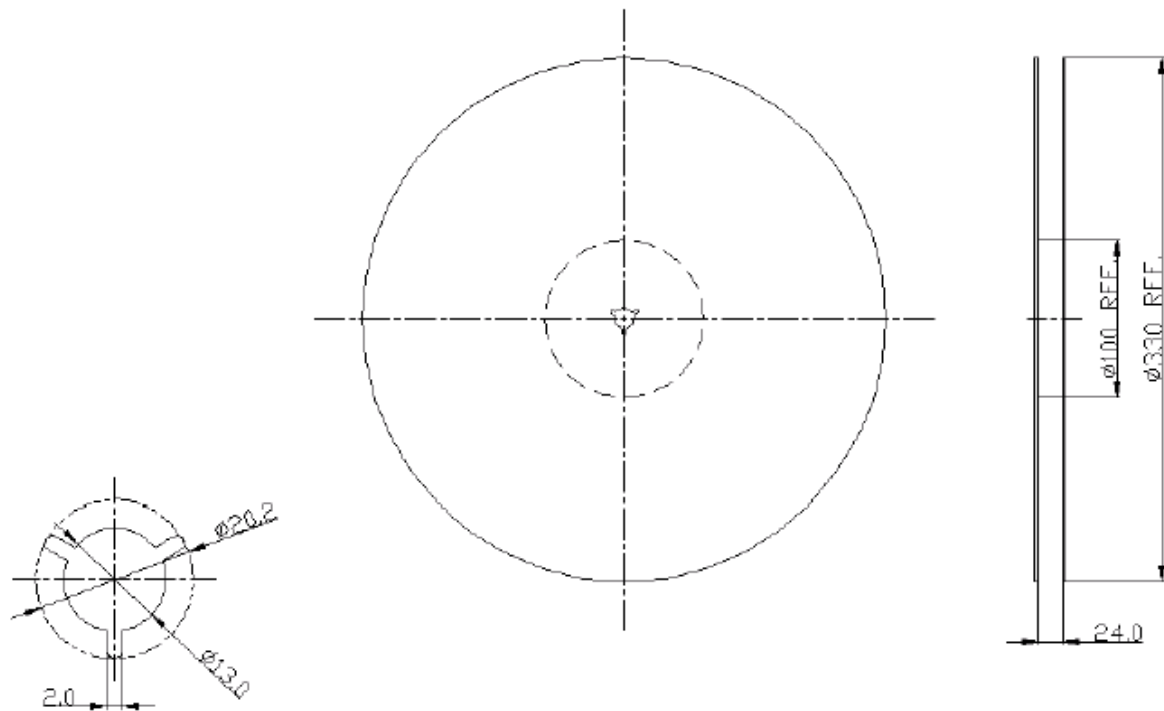


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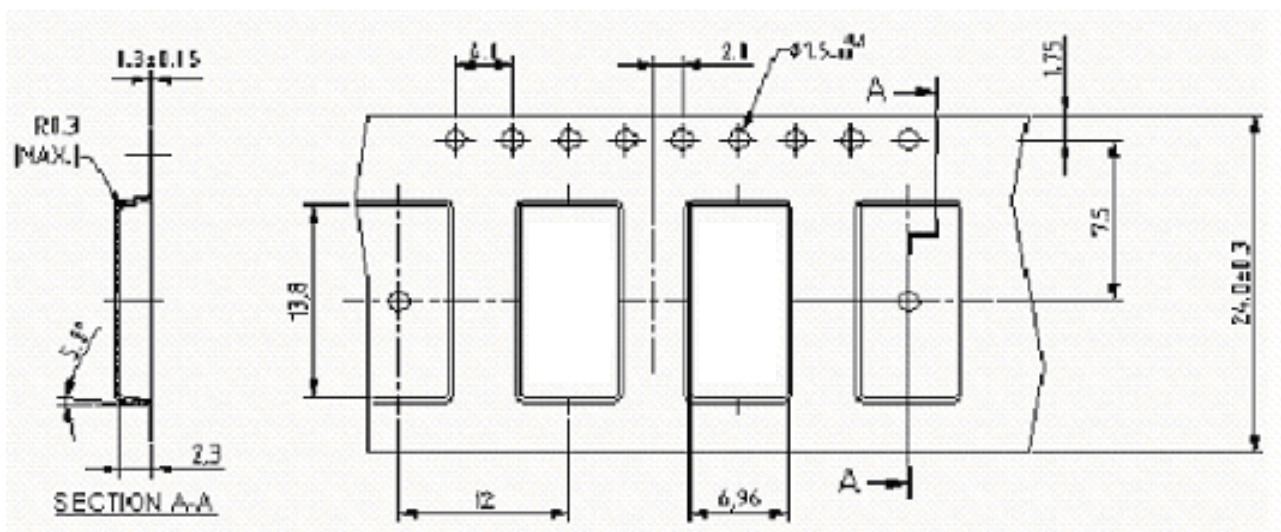
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

