

SAW Filter 125.0MHz

Model: TB1251A

Part No: MP09411

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

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

B. ELECTRICAL CHARACTERISTICS:

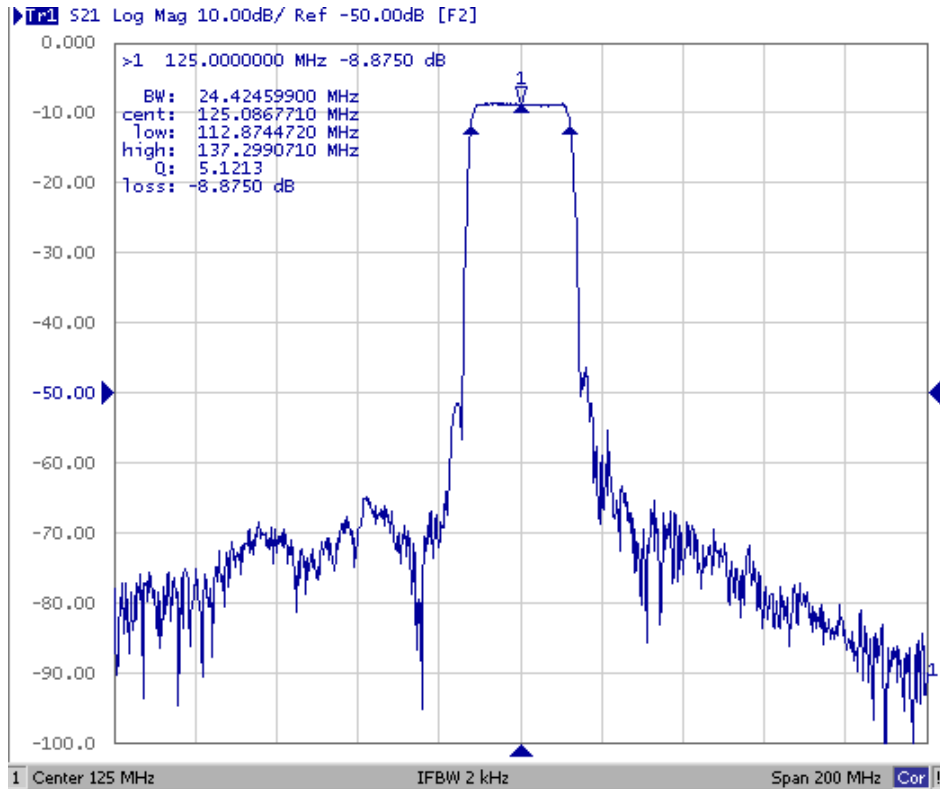
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	125	-
Insertion Loss IL	dB	-	8.6	11.0
1dB Bandwidth	MHz	20.0	23.0	-
Passband Ripple Fc ±10MHz	dB	-	0.5	1.0
Absolute group Delay	us	-	0.74	-
Group Delay variation Fc ±10MHz	ns	-	40	-
Attenuation (Reference level from minimum Insertion loss)				
10MHz ~ 105MHz	dB	40	55	-
145MHz ~ 220MHz	dB	40	49	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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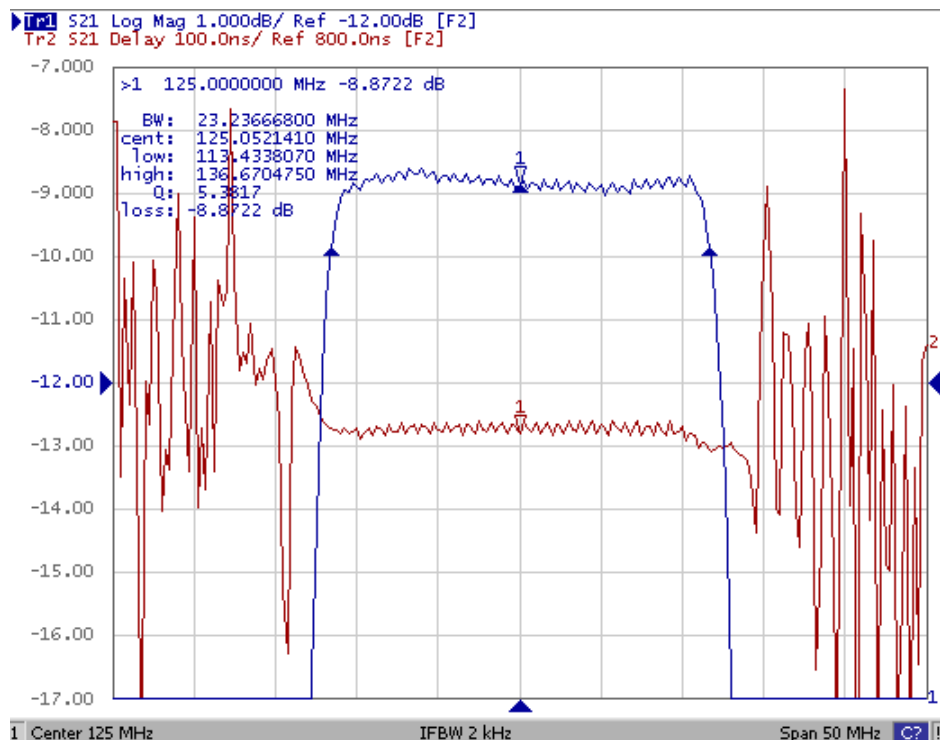
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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response:



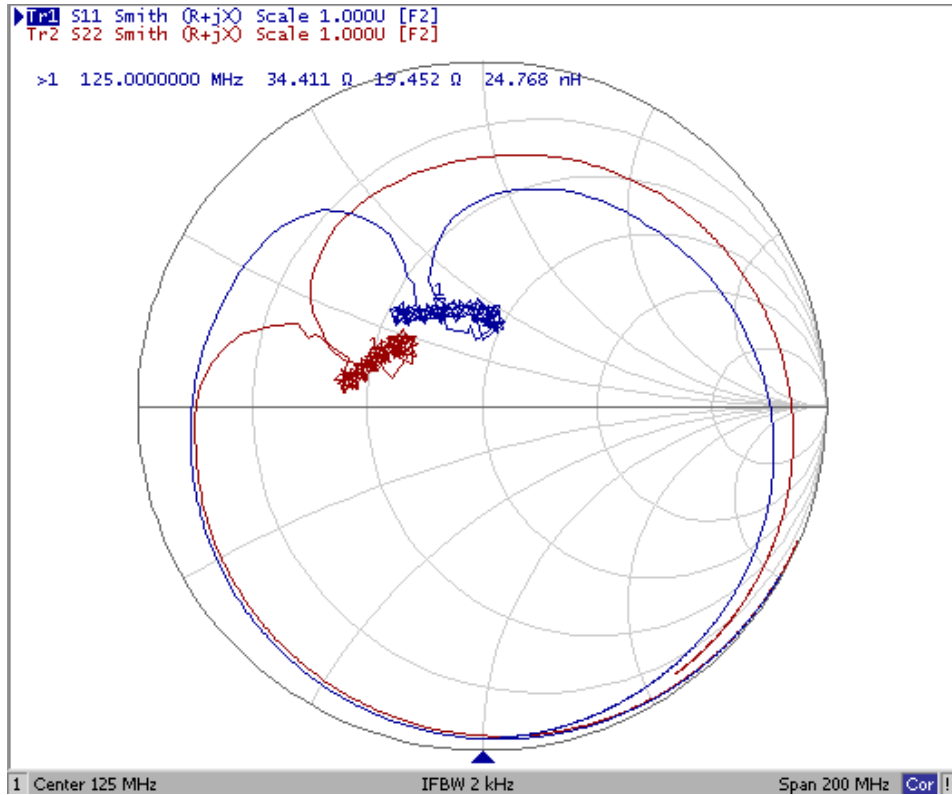
2. Pass band Response and Group Delay Response:



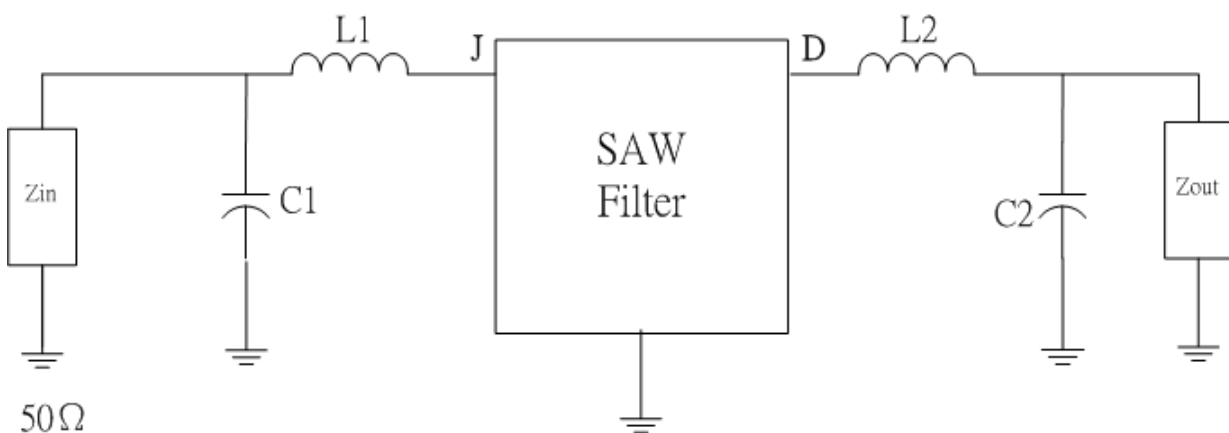
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3. Smith Chart:



D. MATCHING CIRCUIT:

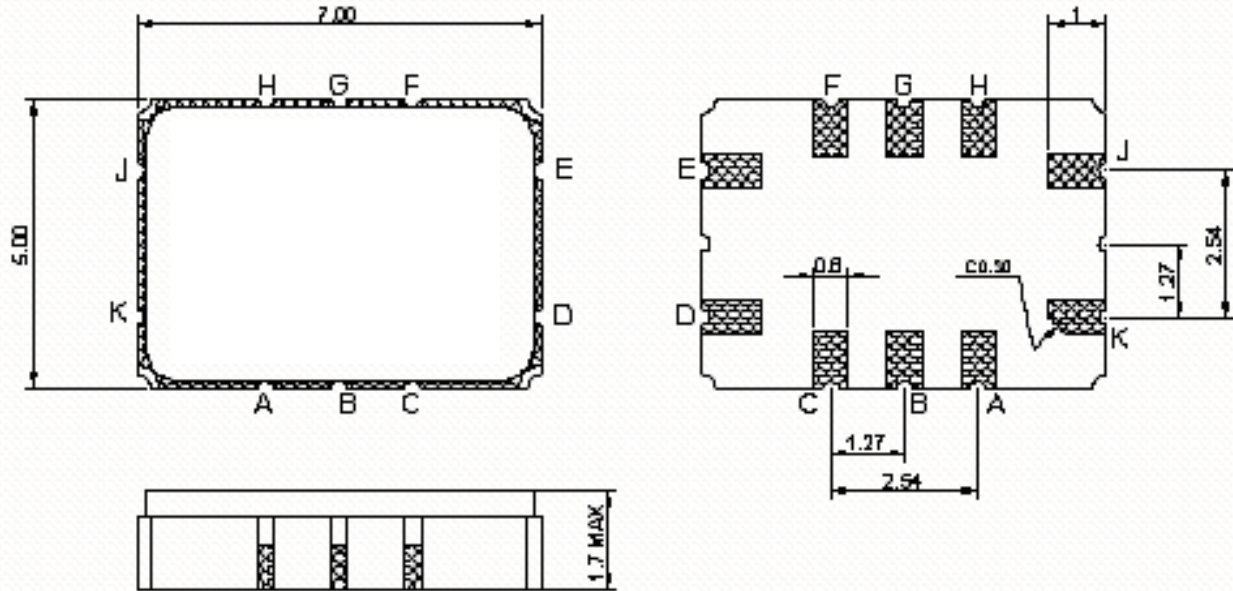


$L1 = 120\text{nH}$, $L2 = 120\text{nH}$, $C1 = 15\text{pF}$, $C2 = 10\text{pF}$

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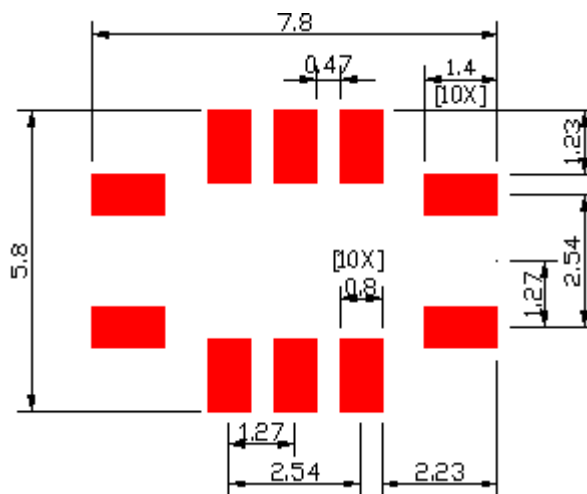
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Rev No: 1

E. OUTLINE DRAWING:



J: RF Input
 D: RF Output
 A, B, C, E, F, G, H, K: Ground
 Unit: mm

F. PCB FOOTPRINT:

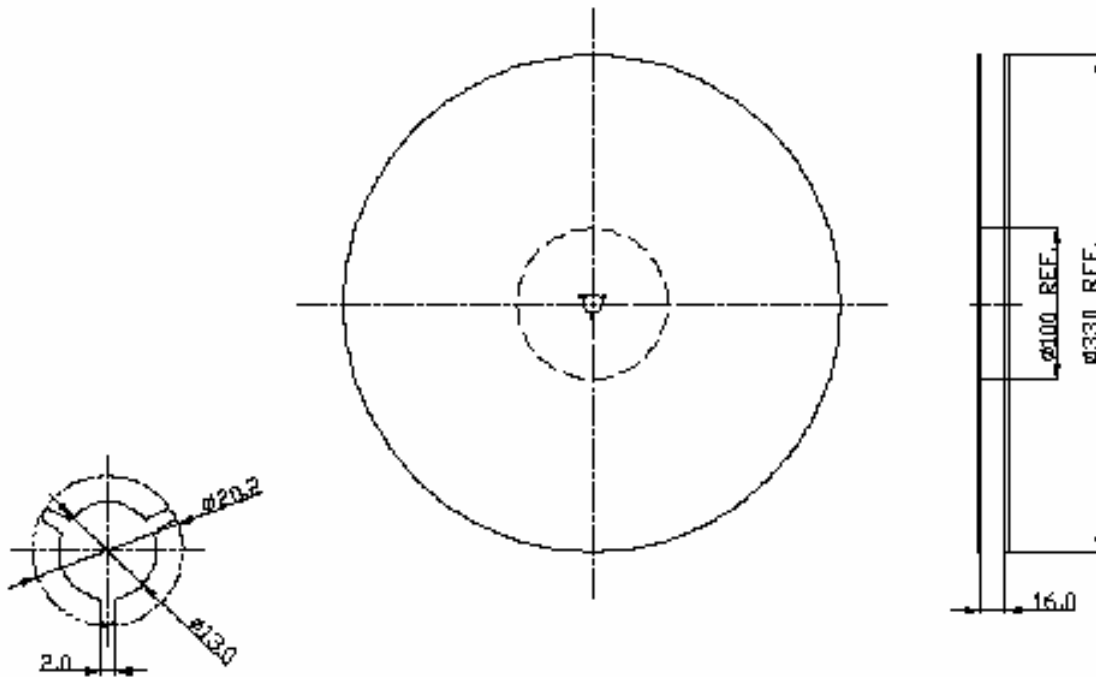


SAW Filter 125.0MHz
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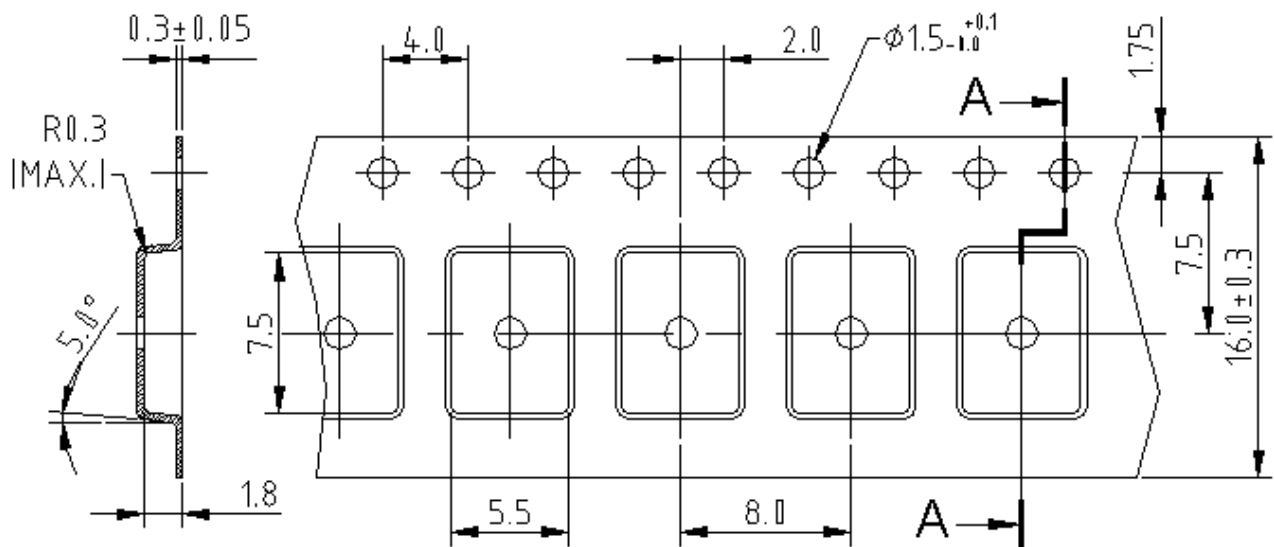
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

