

SAW Filter 1565.50MHz
Part No: MP09822

Model: TA2247A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -40°C to 105°C
2. Storage temperature range: -40°C to 105°C
3. Input Power Level: 15dBm
4. Maximum DC Voltage: 3V
5. Moisture Sensitivity Level: MSL1

B. CHARACTERISTICS:

Ambient Temperature: 25°C

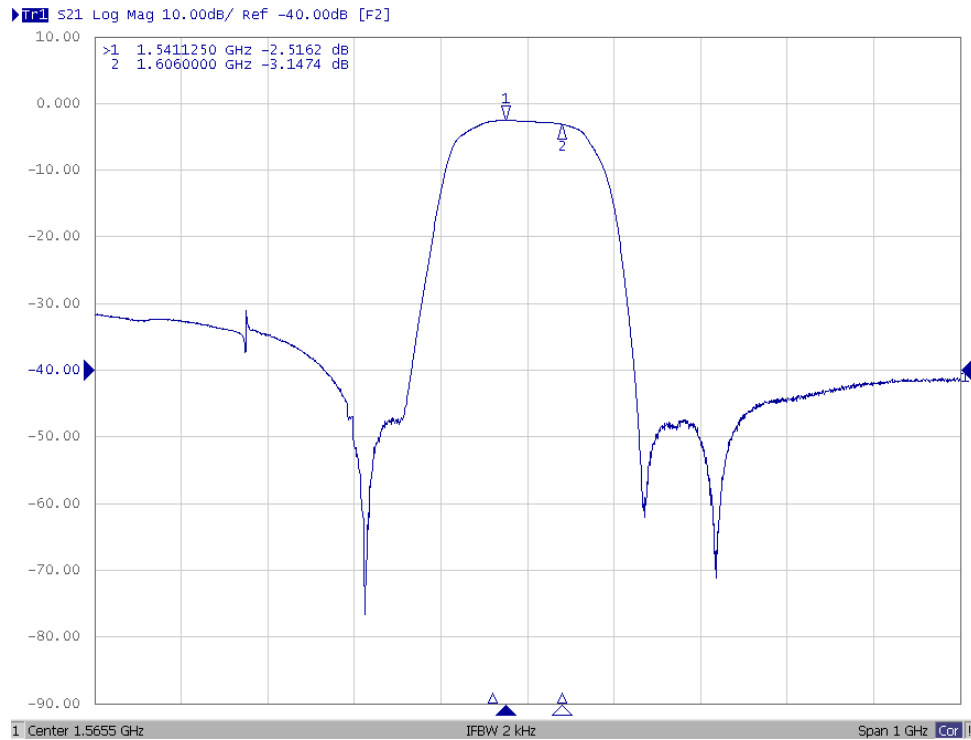
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1565.5	-
Max. Insertion Loss, (1525~1606MHz)	dB	-	3.1	3.7
Passband Ripple (1525~1606MHz)	dB	-	0.6	2.0
Group Delay Variation (1525~1606MHz)	ns	-	2	15
Group Delay Variation (1525~1606MHz) on 2MHz sliding window	ns	-	1.2	15
Group Delay Variation (1573.374~1577.466MHz)	ns	-	0.5	5
Group Delay Variation (1597.55~1605.866MHz)	ns	-	1	5
Return Loss (1525~1606MHz)	dB	6.0	9.0	-
Attenuation Referenced from 0dB				
703MHz~915MHz	dB	27	30	-
1320MHz~1420MHz	dB	30	40	-
1740MHz~2000MHz	dB	30	40	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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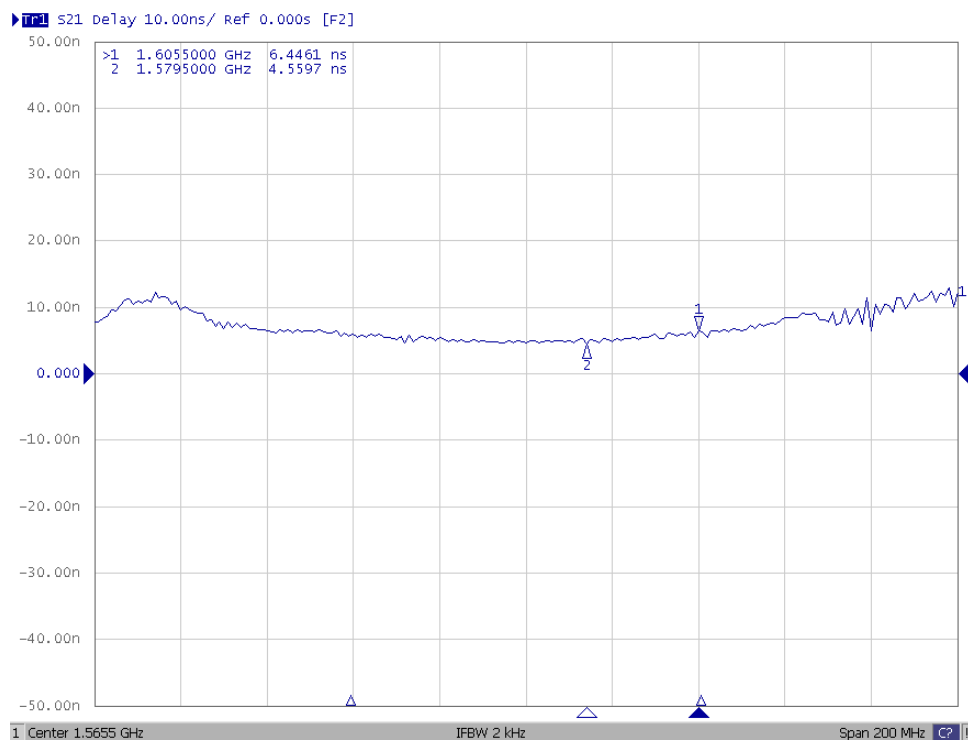
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C. FREQUENCY CHARACTERISTICS:

1. Narrow Band Response



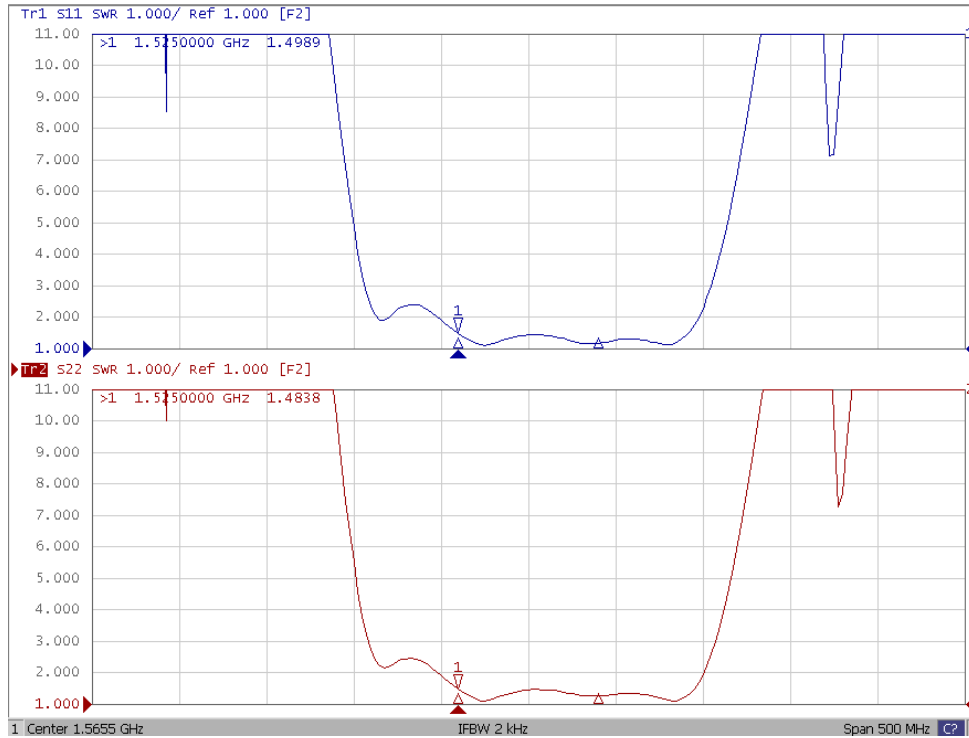
2. Group Time Delay Response



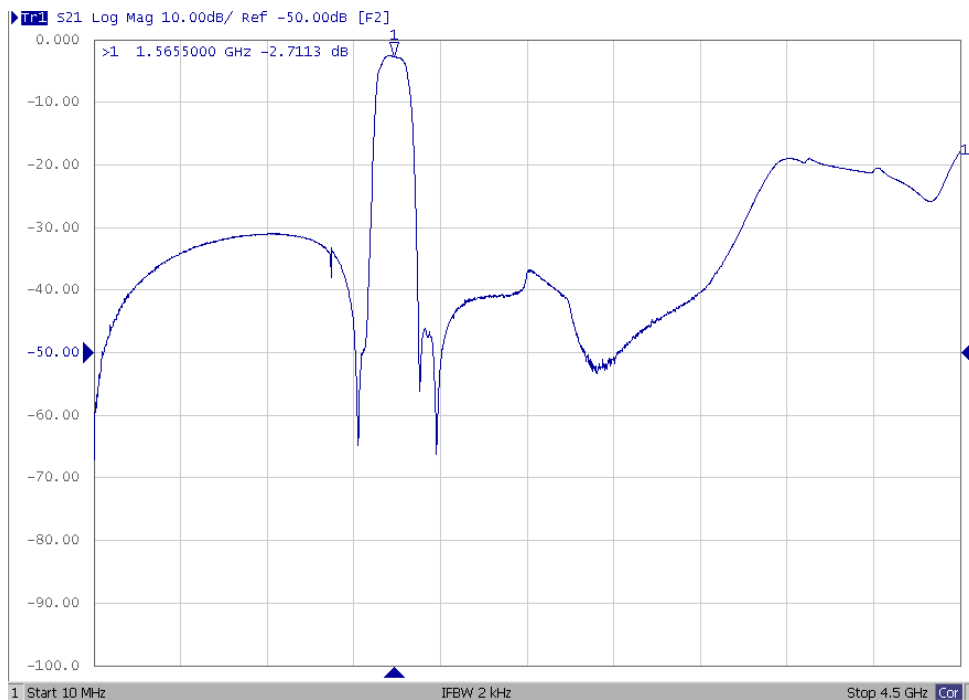
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3. VSWR



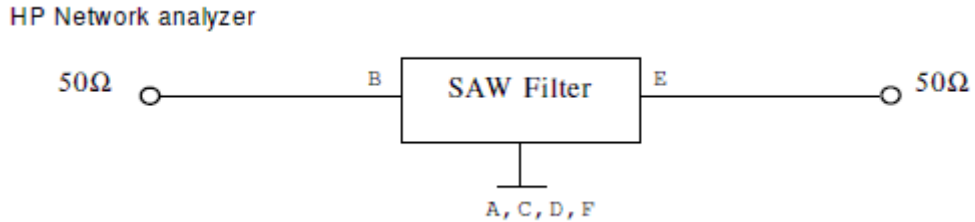
4. Wide Band Response:



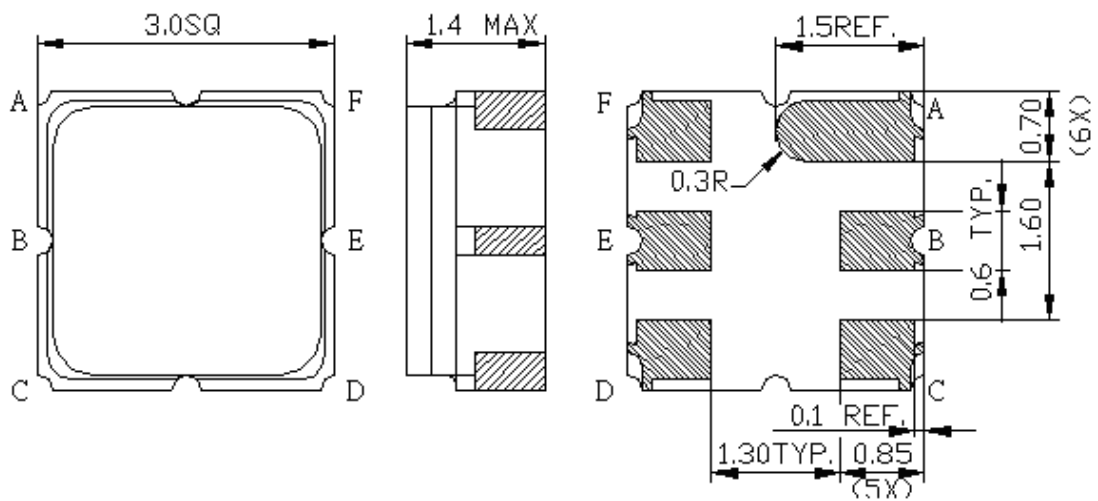
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D. MATCHING CIRCUIT:

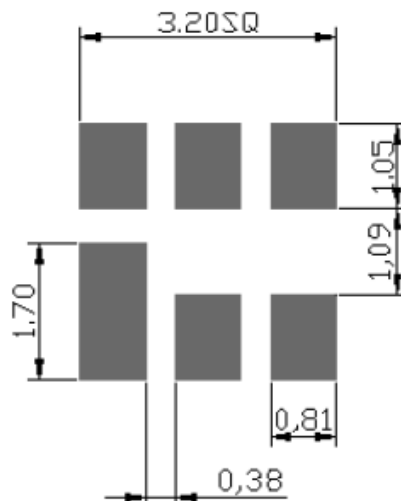


E. OUTLINE DRAWING:



B: Input
 E: Output
 Others: Ground

F. PCB FOOTPRINT:

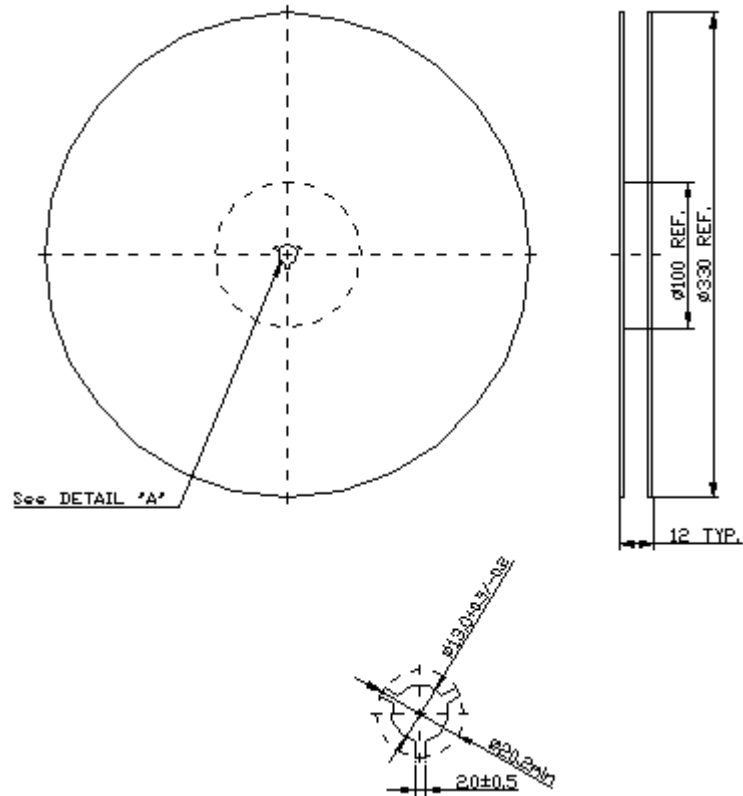


SAW Filter 1565.50MHz
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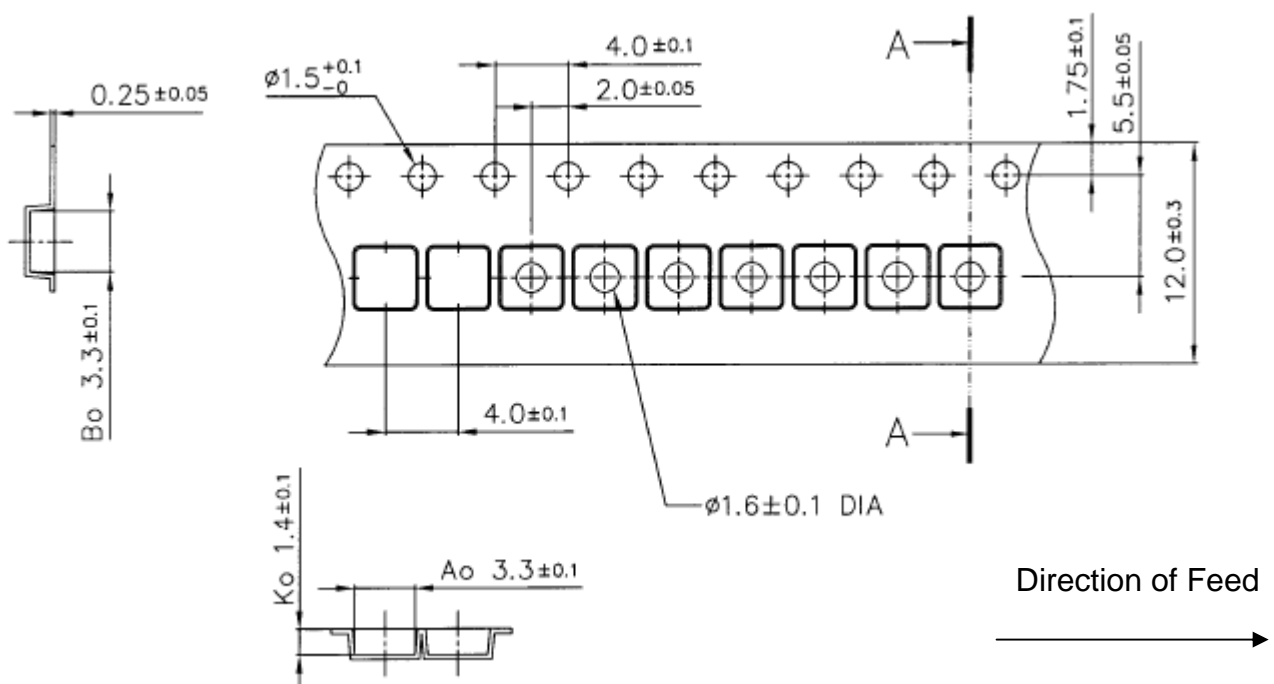
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G. PACKING:

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.

