

SAW Filter 1583.0MHz

Model: TA1661A

Part No: MP06771

Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC Voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +105°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (single): $Z_S = 50\Omega$
2. Terminating load impedance (single): $Z_L = 50\Omega$

Item	Unit	25 ± 2°C	Typ.	-40 ~ +85°C
Center Frequency Fc	MHz	-	1583	-
Insertion Loss (1559.1 ~ 1563.1MHz) IL	dB	1.9max	1.8	2.1max
Insertion Loss (1573.42 ~ 1577.42 MHz) IL	dB	1.5max	1.4	1.6max
Insertion Loss (1597.55 ~ 1605.89 MHz) IL	dB	1.8max	1.7	2.1max
VSWR (1559.1 ~ 1563.1MHz)		1.5max	1.4	1.8max
VSWR (1573.42 ~ 1577.42MHz)		1.7max	1.6	2.0max
VSWR (1597.55 ~ 1605.89MHz)		1.7max	1.6	1.9max
Amplitude ripple				
(1559.1 ~ 1563.1MHz)	dB	0.6max	0.5	0.8max
(1573.42 ~ 1577.42MHz)	dB	0.3max	0.2	0.5max
(1597.55 ~ 1605.89MHz)	dB	0.5max	0.3	0.6max
Attenuation				
100 ~ 824MHz	dB	44min	46	40min
824 ~ 925MHz	dB	44min	46	40min
1427 ~ 1463MHz	dB	43min	45	40min
1710 ~ 1785MHz	dB	38min	40	36min
1850 ~ 1980MHz	dB	38min	40	36min
2400 ~ 2570MHz	dB	38min	40	36min
2570 ~ 3000MHz	dB	35min	40	33min
Package size	mm	1411		

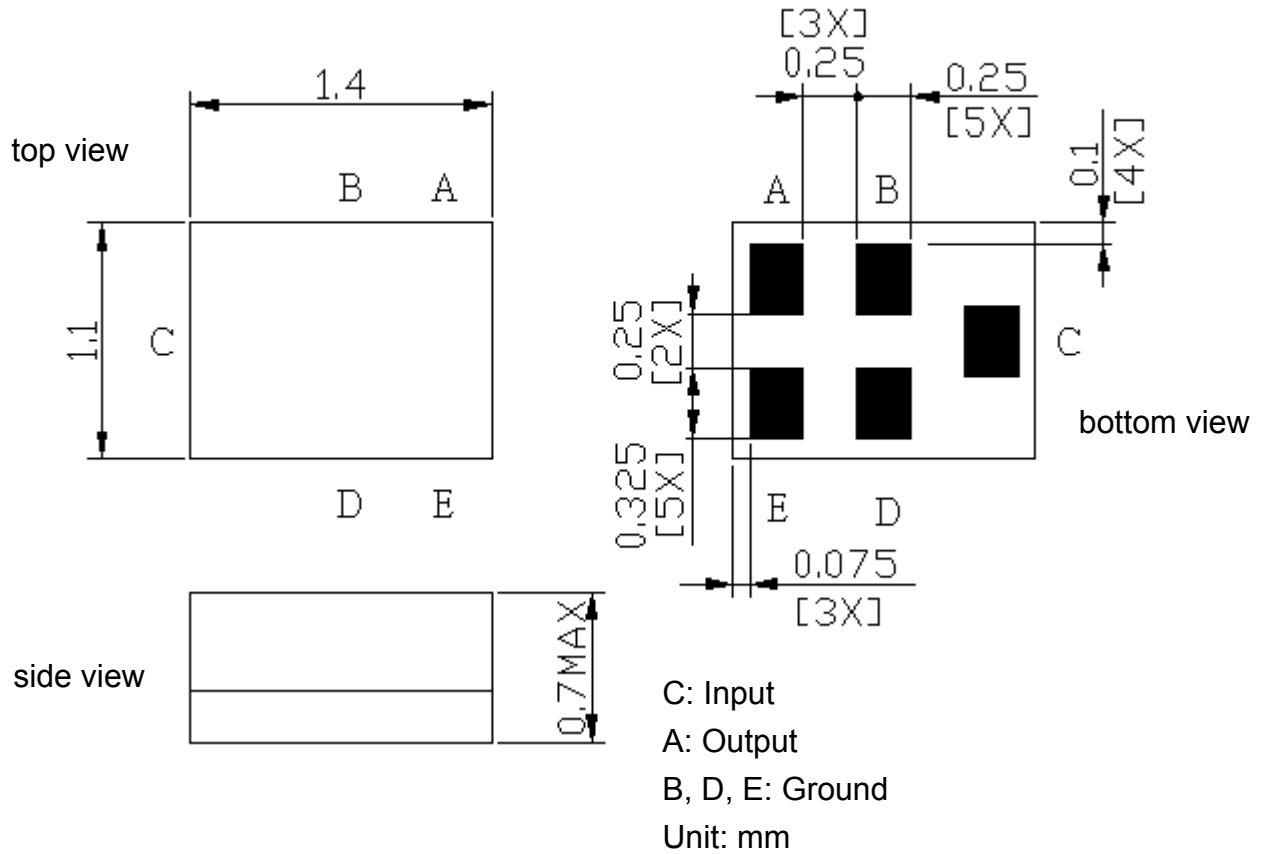
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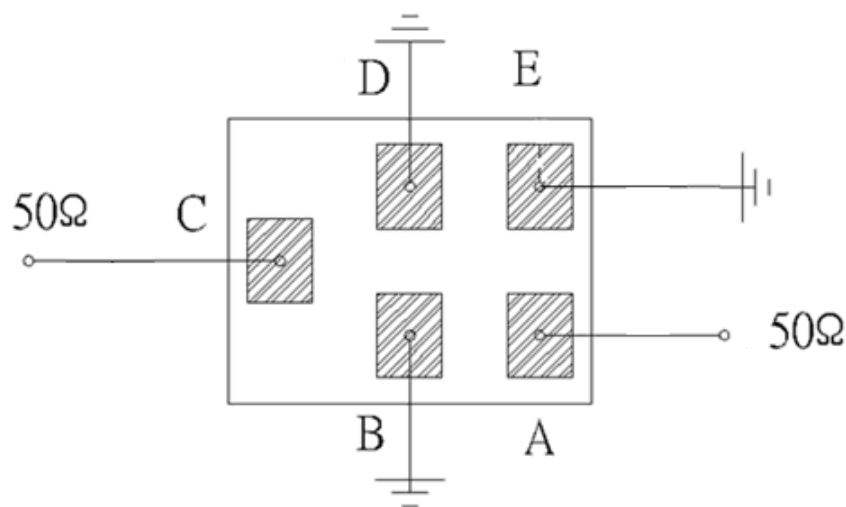
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C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



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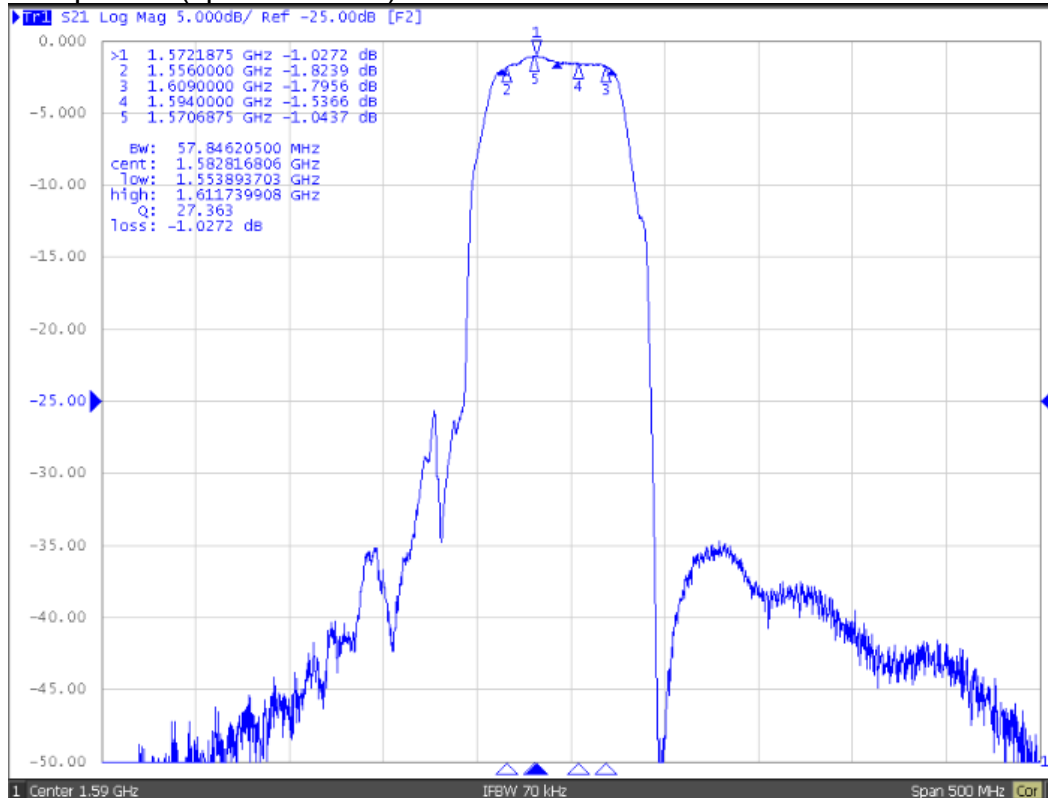
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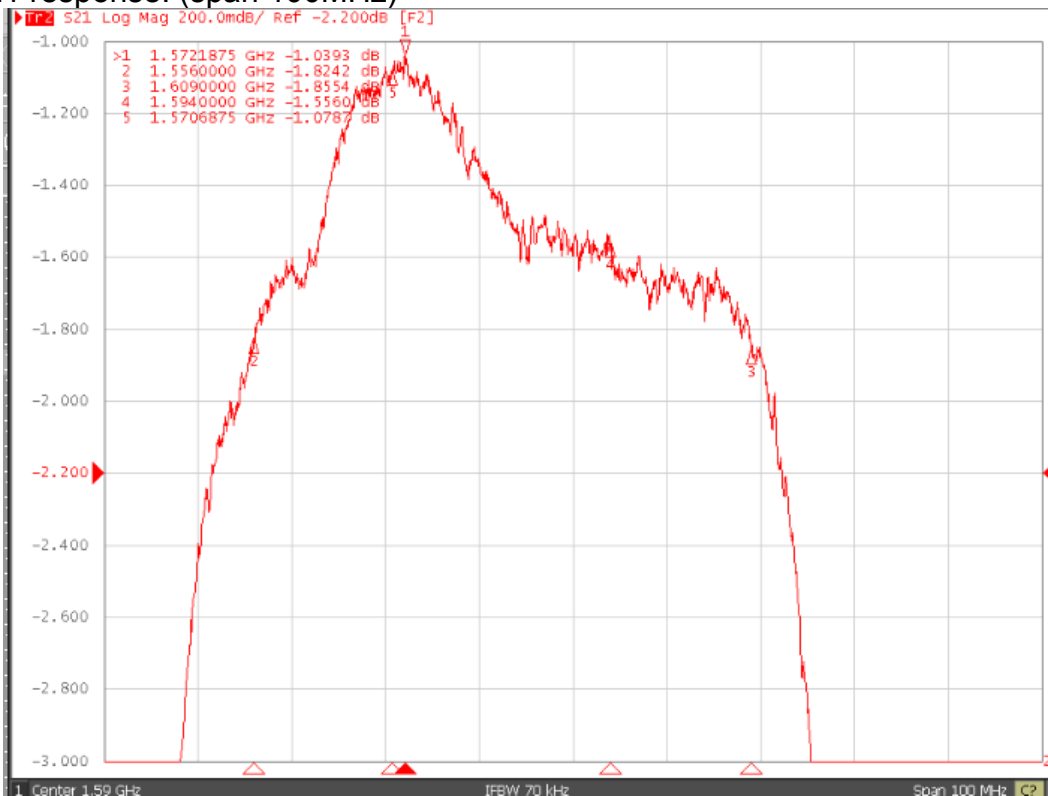
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E. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 500MHz)



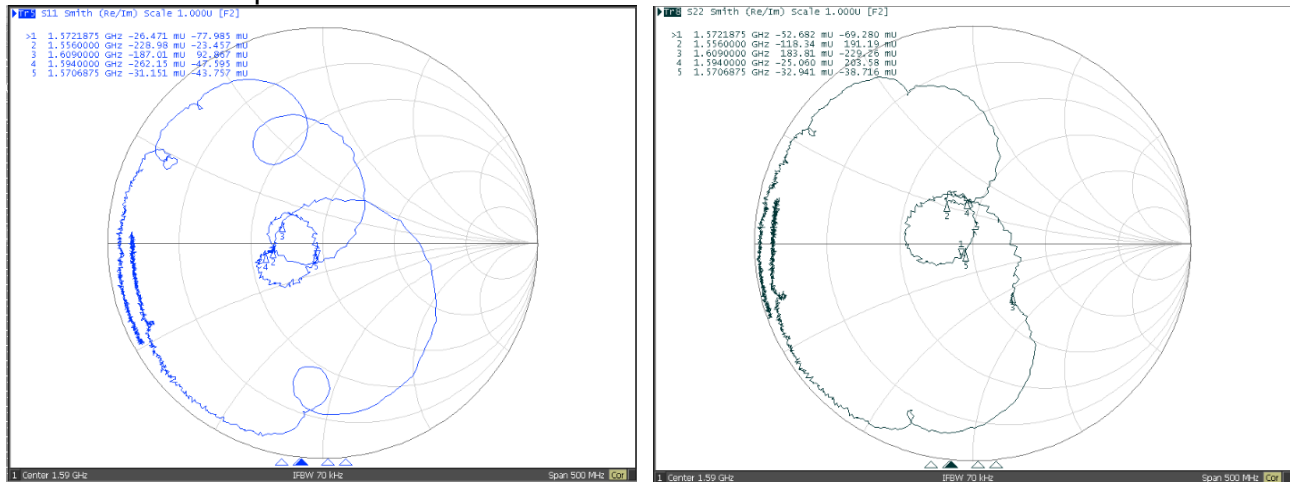
2. S21 response: (span 100MHz)



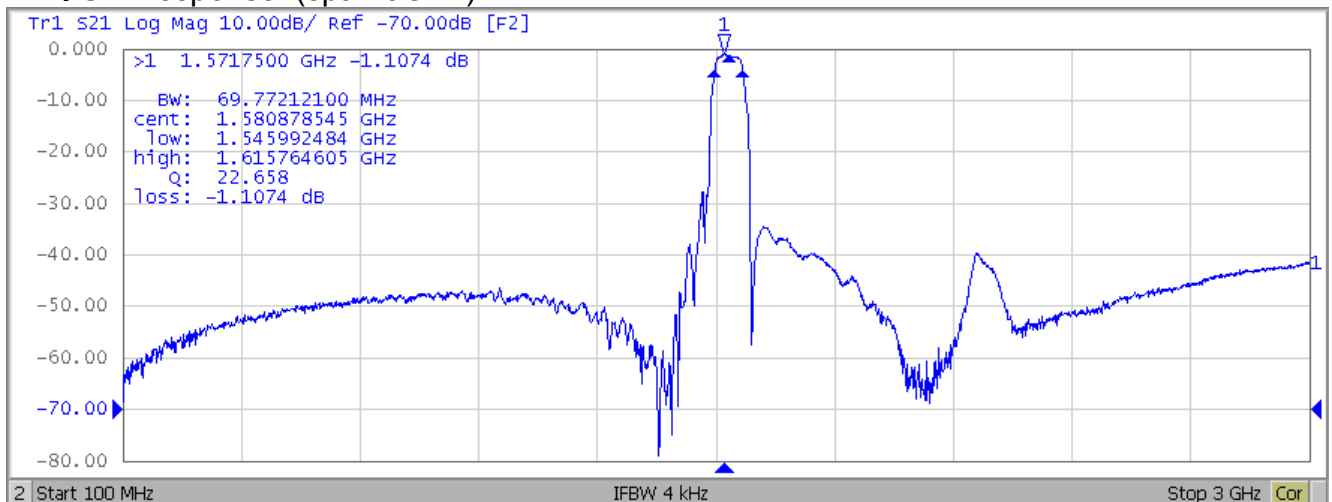
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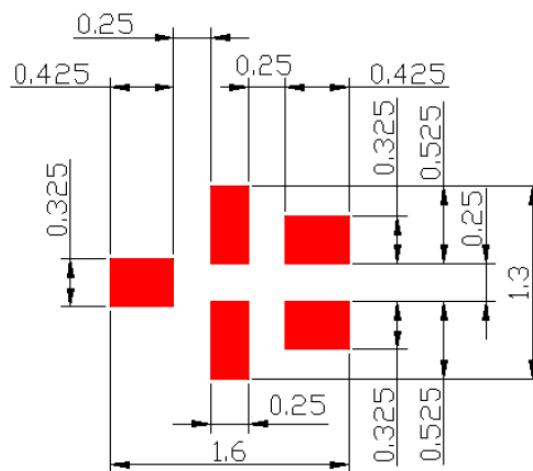
3. S11/S22 response



4. S21 response: (span 3GHz)



F. PCB FOOTPRINT:



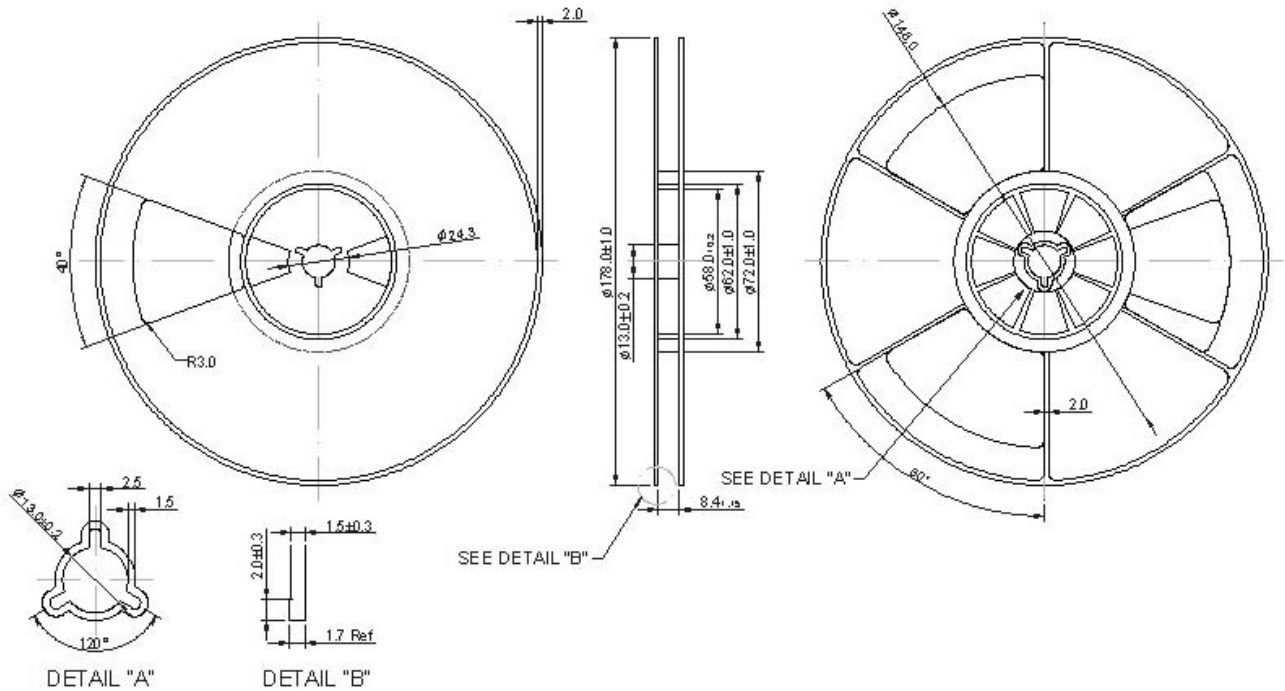
: Land Pattern

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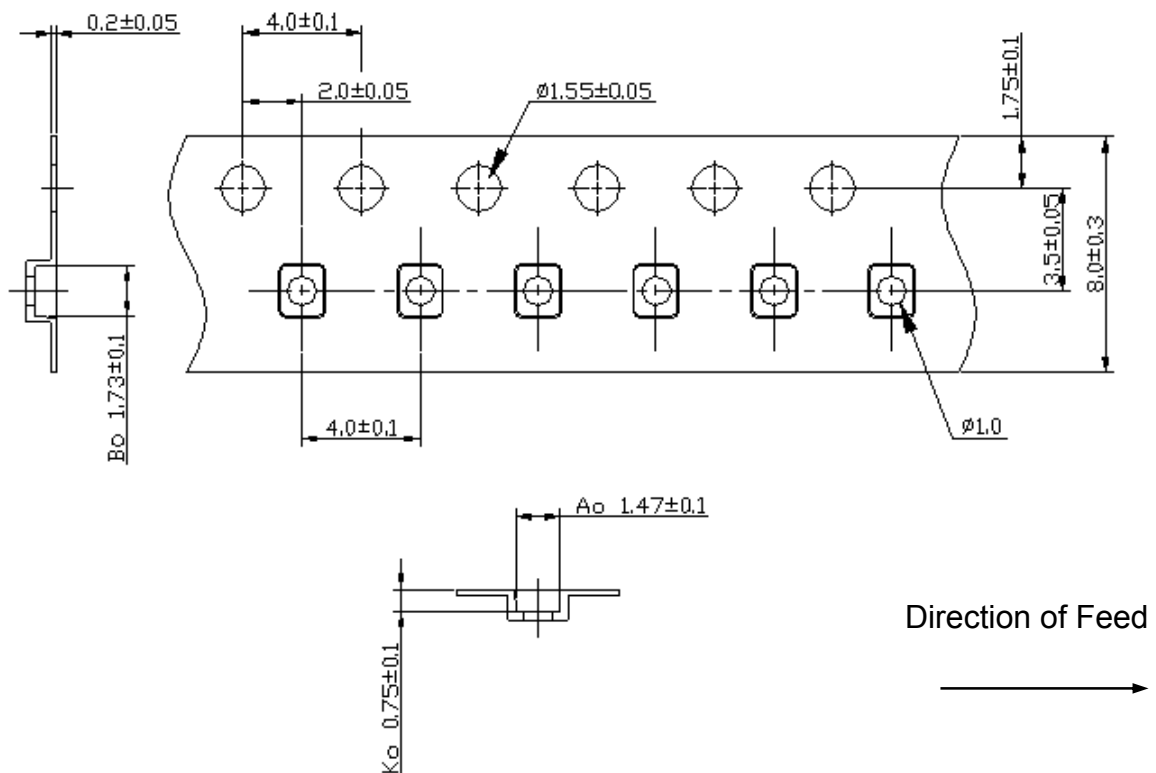
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G. PACKING:

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 ~ 40sec).
4. Time: 2 times.

