

SAW Filter 1583.0MHz

Model: TA1661B

Part No: MP06782

Rev No: 1

A. MAXIMUM RATING:

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

AEC-Q200 compliant

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance (single) : $Z_L = 50 \Omega$

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

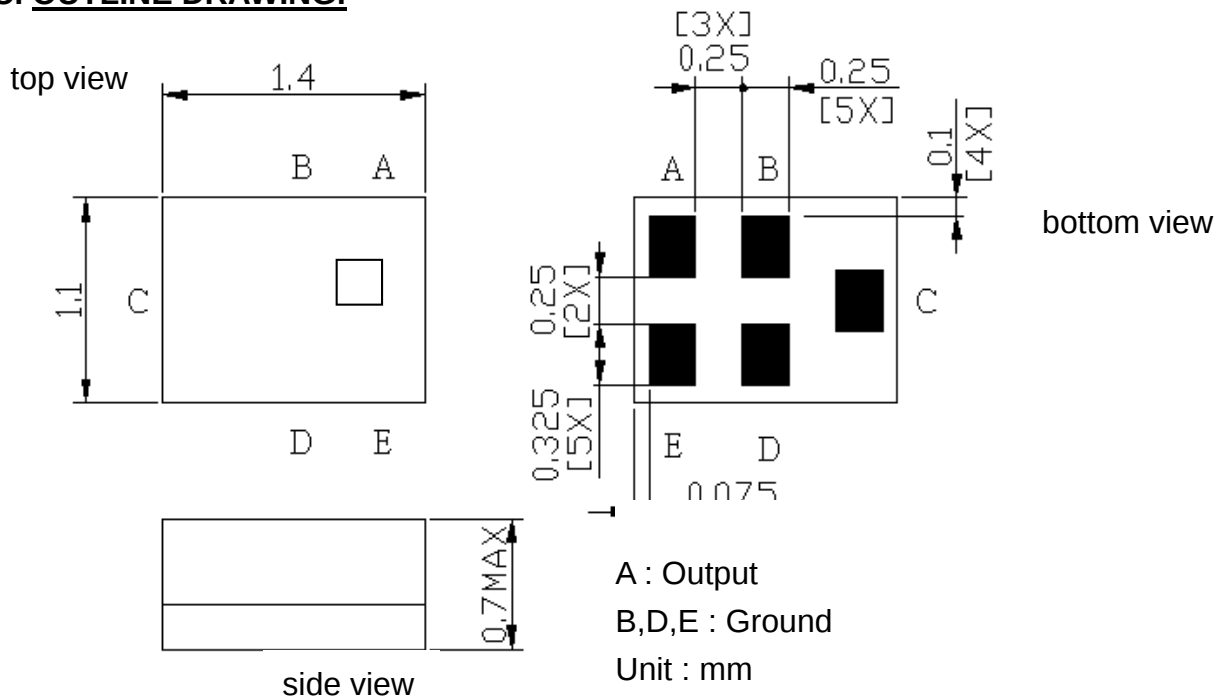
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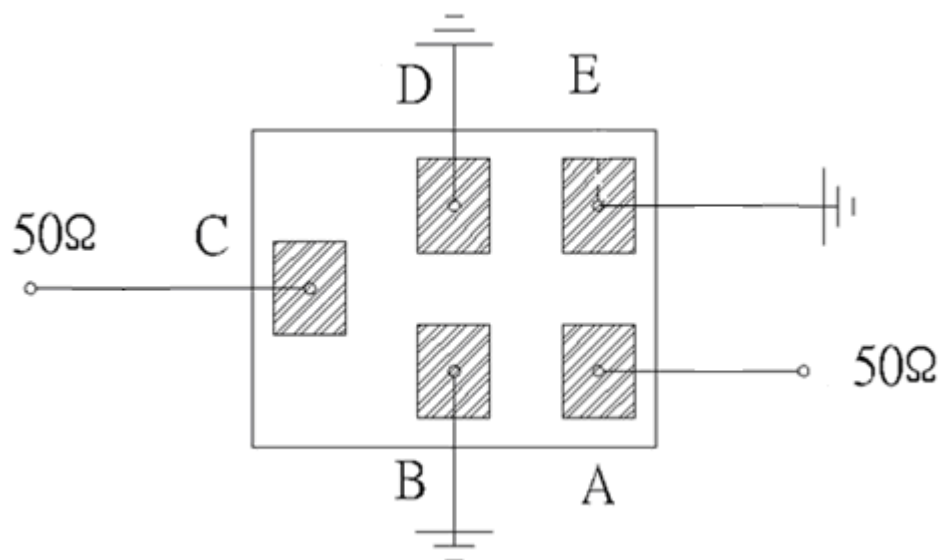
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C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



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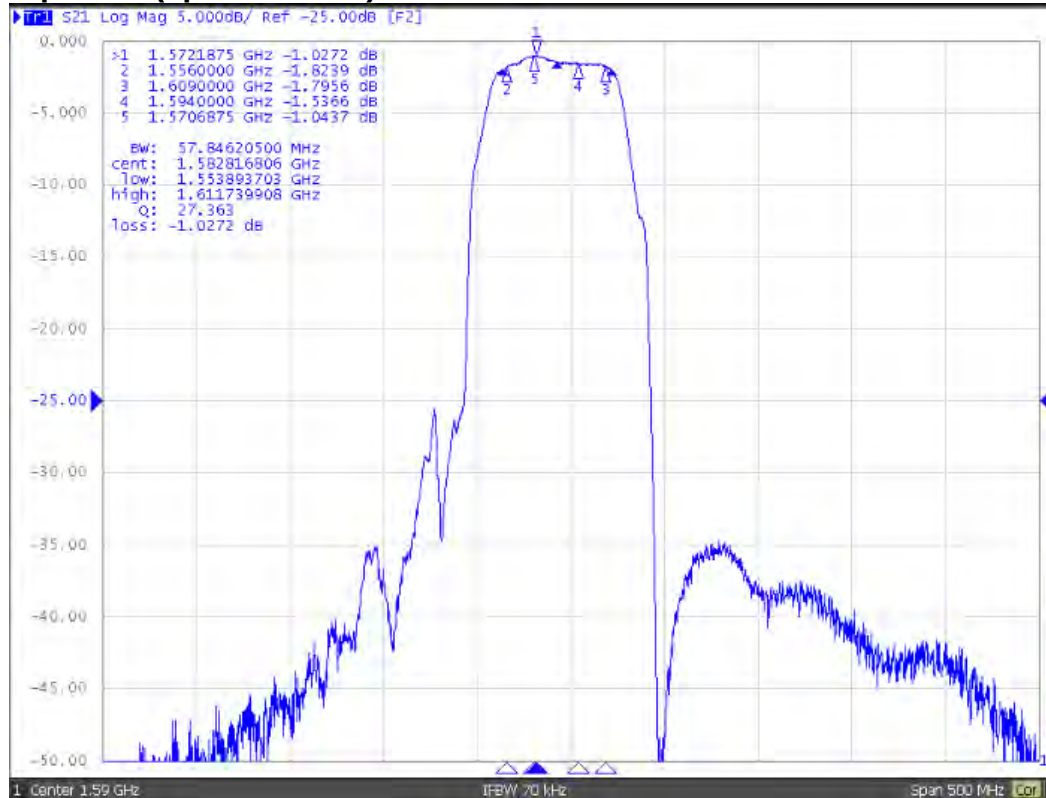
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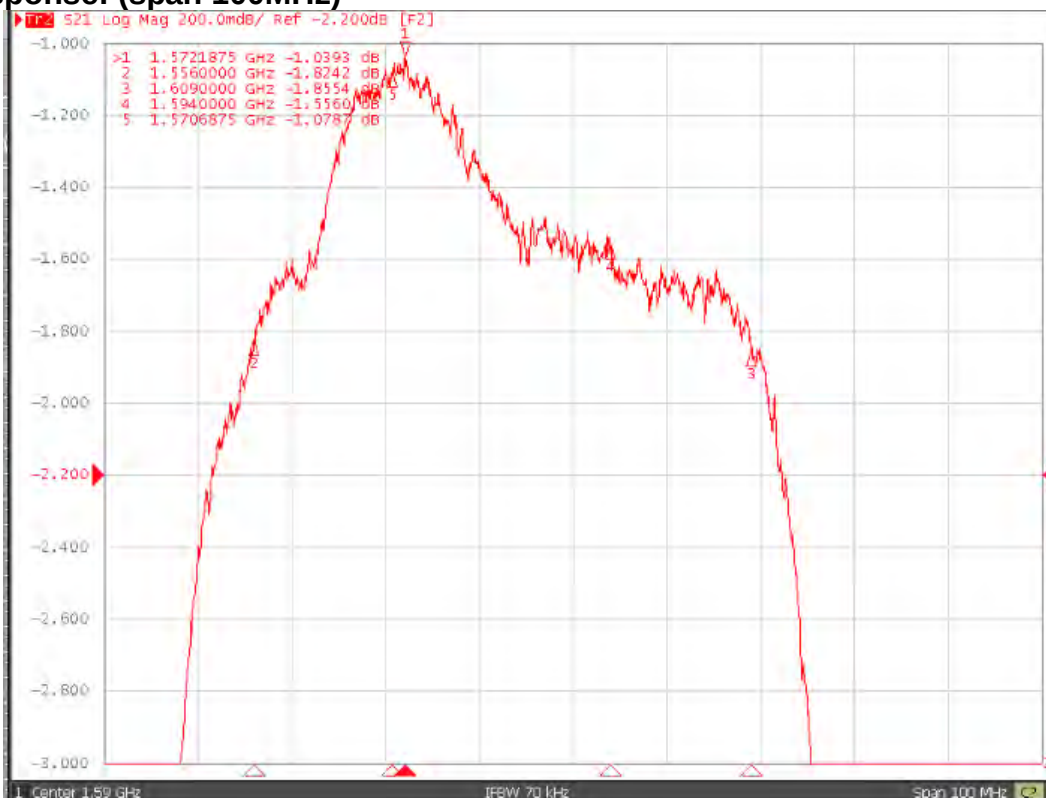
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E. Frequency Characteristics:

S21 response: (span 500MHz)



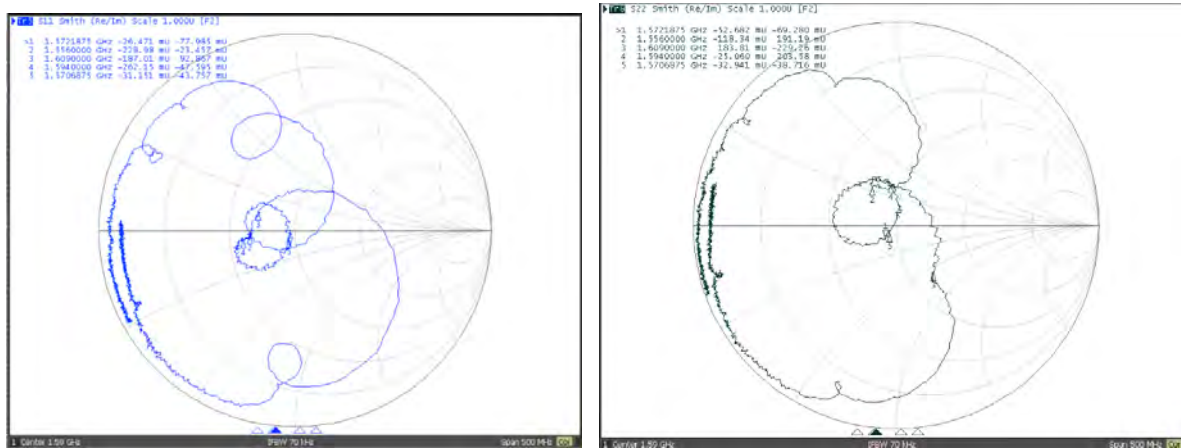
S21 response: (span 100MHz)



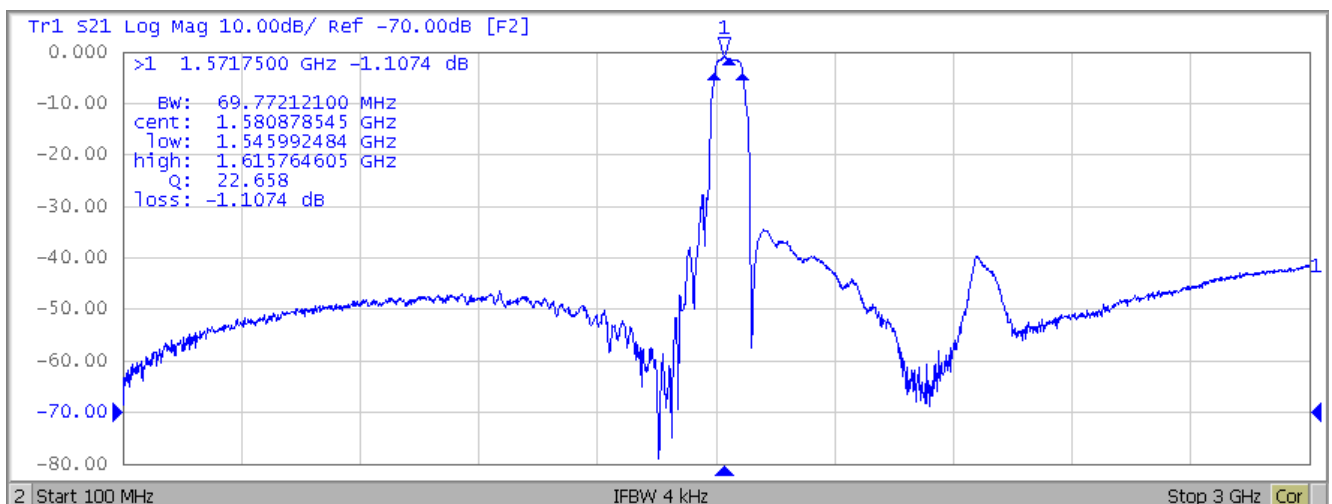
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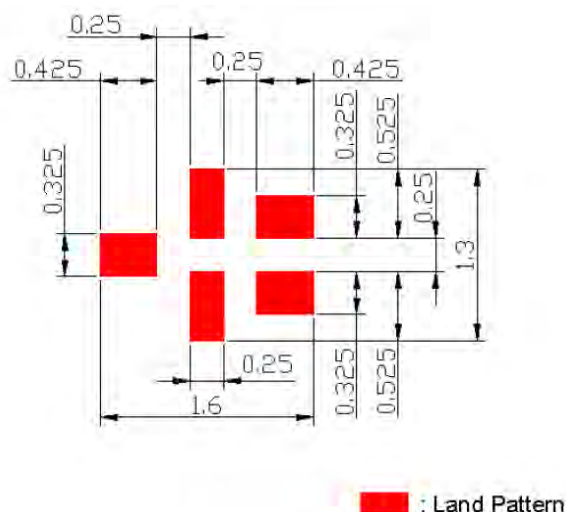
S11/S22 response :



S21 response: (span 3GHz)



F. PCB Footprint:



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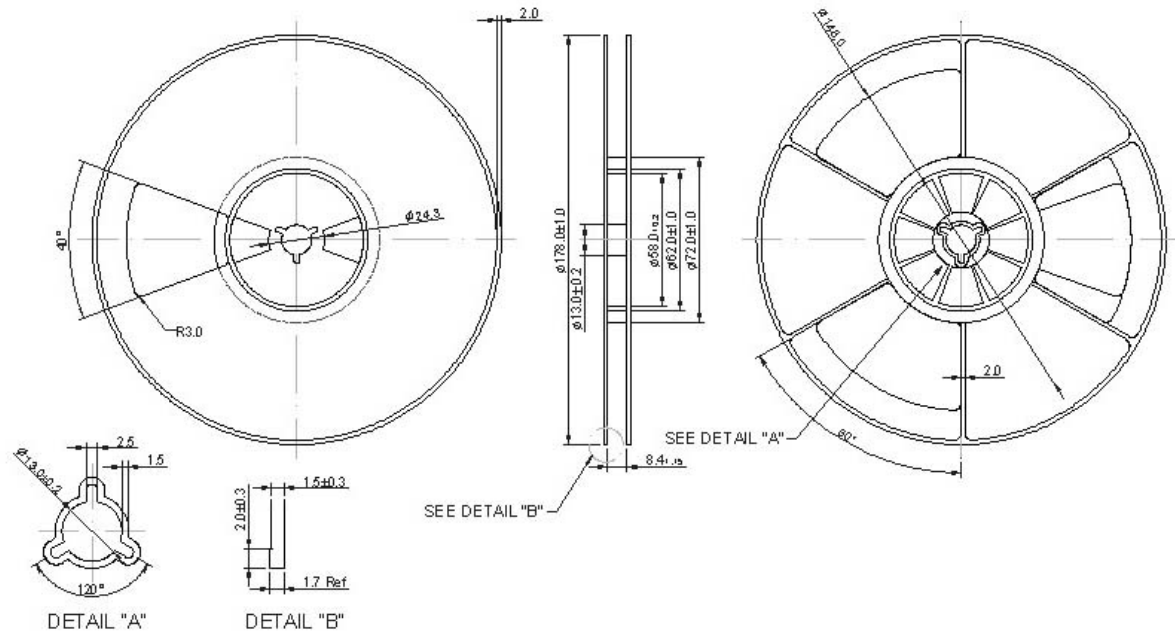
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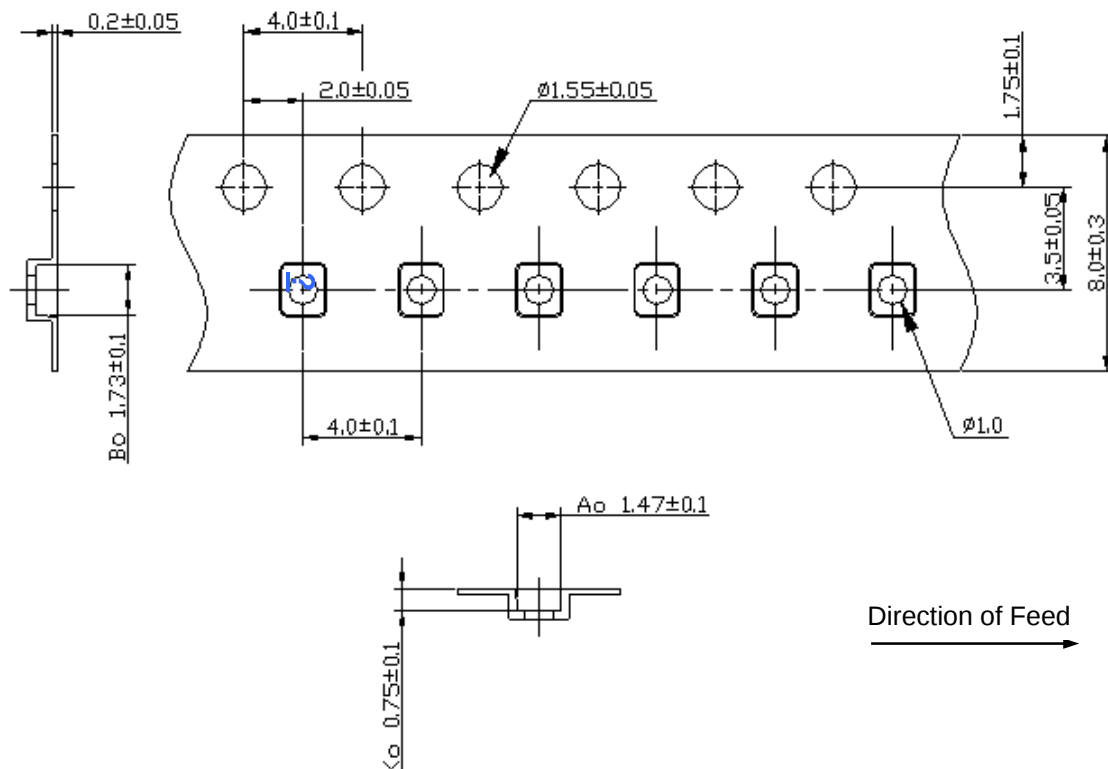
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G. PACKING:

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 245~260°C peak (min. 10sec).
4. Time : 2 times.

