

SAW Filter 1586.360MHz
Part No: MP06141

Model: TA0699B
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_S = 150\Omega // 33nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 33nH$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1586.36	-	-
Bandwidth at -2dB	MHz	46	59	-	-
Insertion Loss in 1563.36 ~ 1609.36MHz	dB	-	2.7	5	-
Amplitude ripple (1563.36MHz ~ 1609.36MHz)	dB	-	1	2	-
Phase error (1563.36MHz ~ 1609.36MHz) (3)	deg	-	3.5	6	-
I/O VSWR (1563.36MHz ~ 1609.36MHz)		-	2.1	2.5	-
CMDR (1563.36MHz ~ 1609.36MHz)	dB	22	26	-	-
Attenuation (1)					
50 ~ 1504.3MHz	dB	46	50	-	-
1668.42 ~ 1810.5MHz	dB	46	53	-	-
1810.5 ~ 4250MHz	dB	35	41	-	-
4250 ~ 6000MHz	dB	30	38	-	-

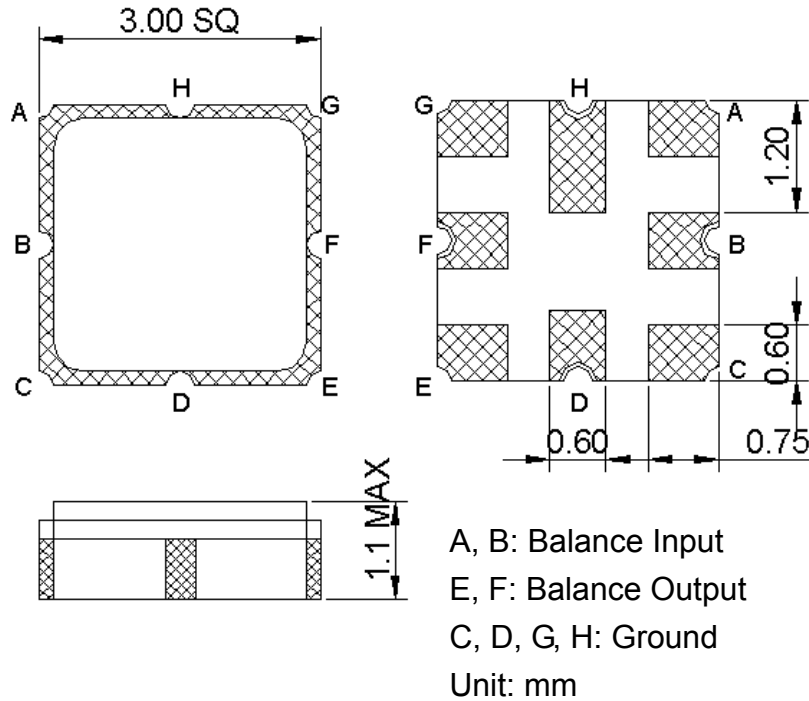
Notes:

1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max. level -min. level over any 30MHz block of the given bandwidth.
3. The phase error is measured over any 30MHz block of the given bandwidth.

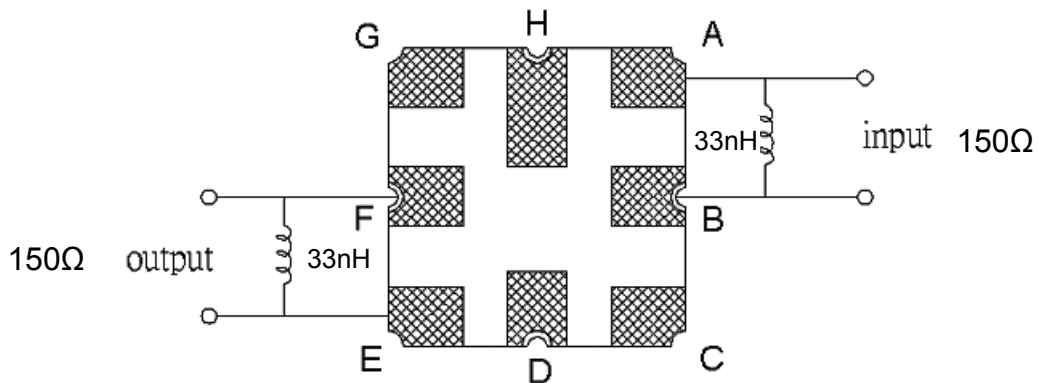
SAW Filter 1586.360MHz
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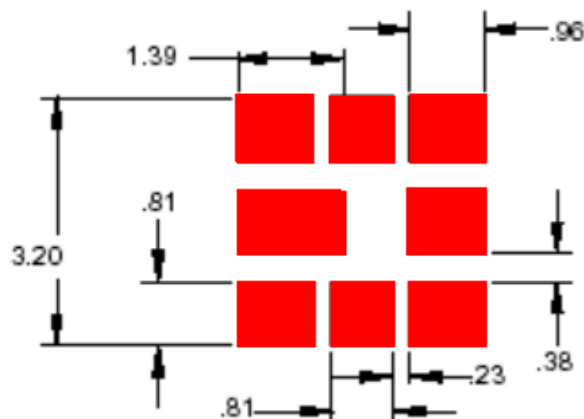
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



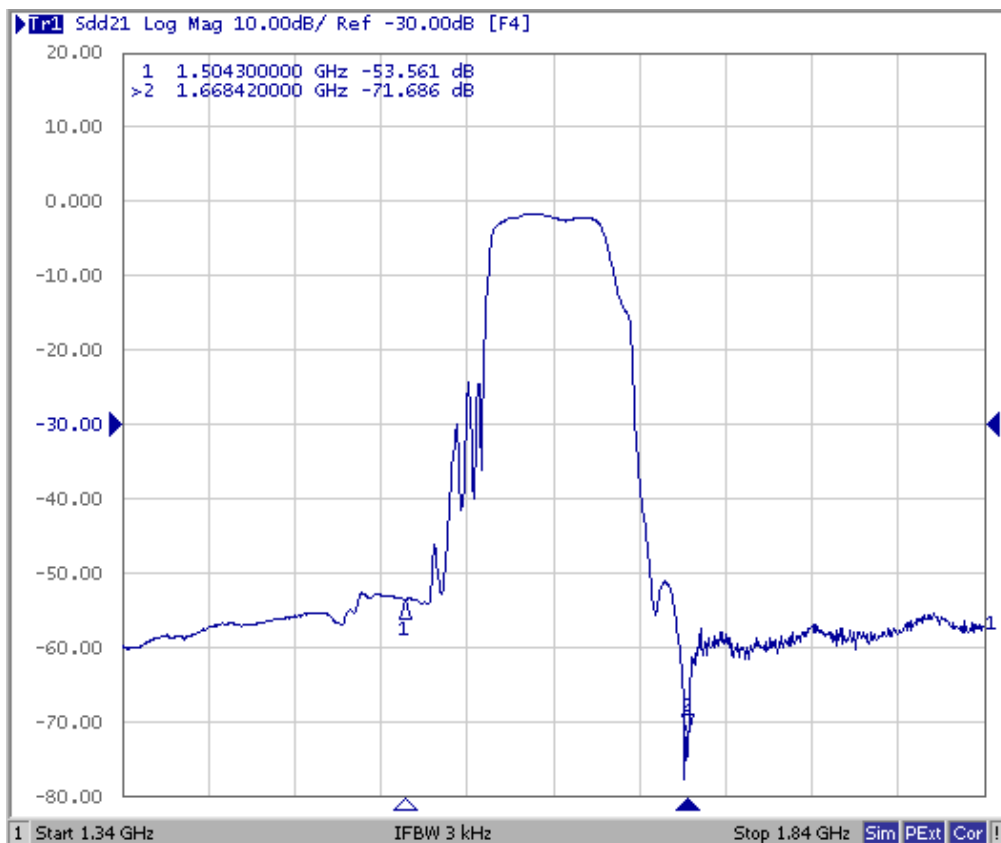
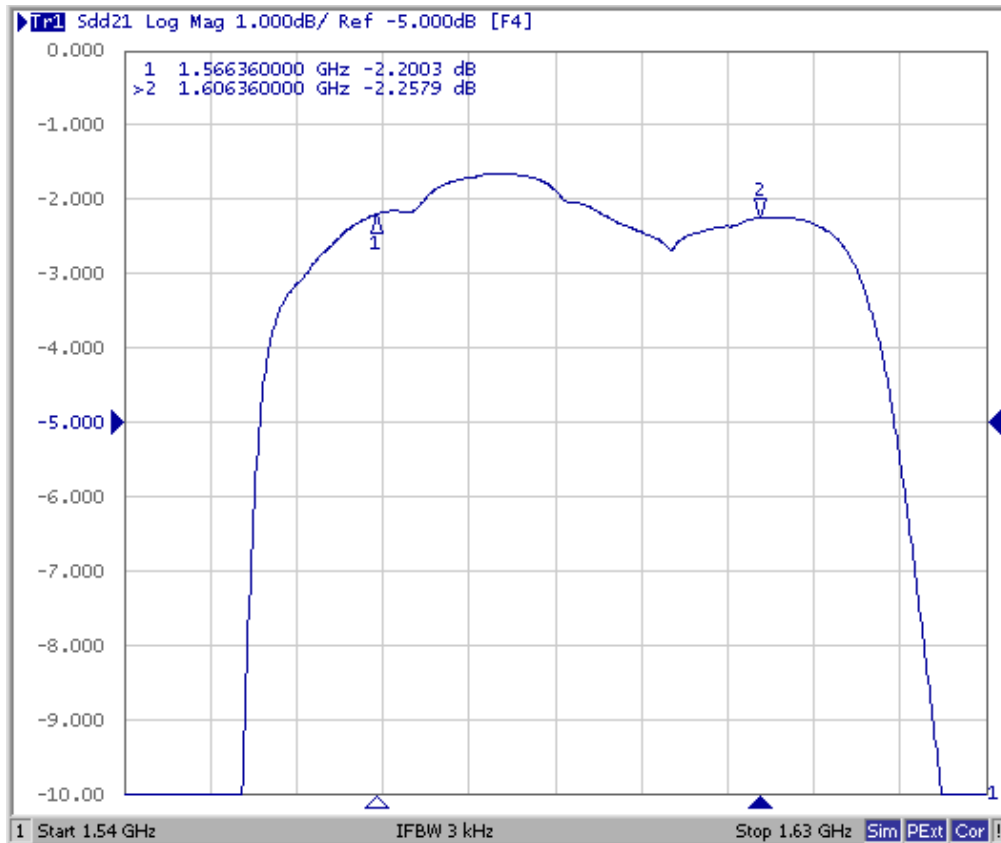
E. PCB FOOTPRINT:



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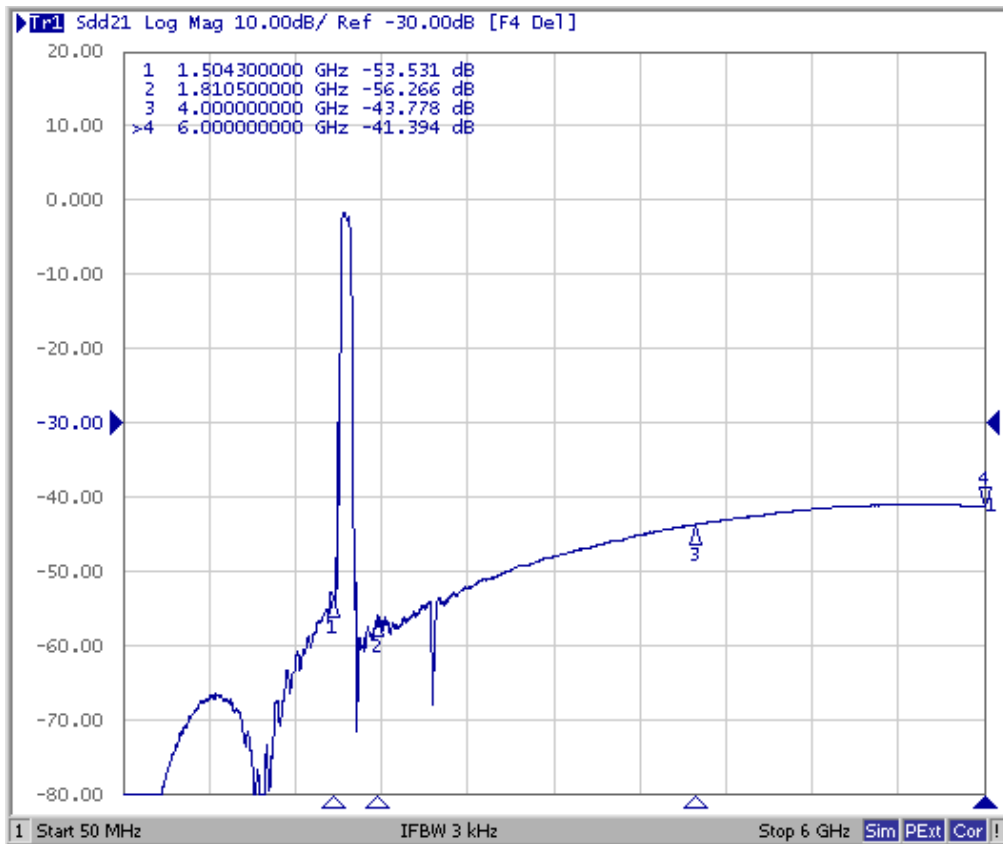
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Rev No: 1

F. FREQUENCY CHARACTERISTICS:



SAW Filter 1586.360MHz
Part No: MP06141

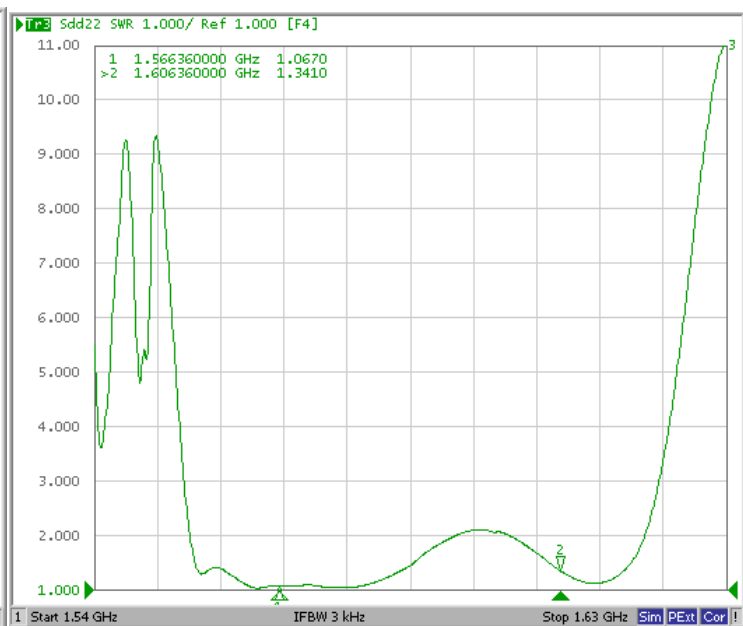
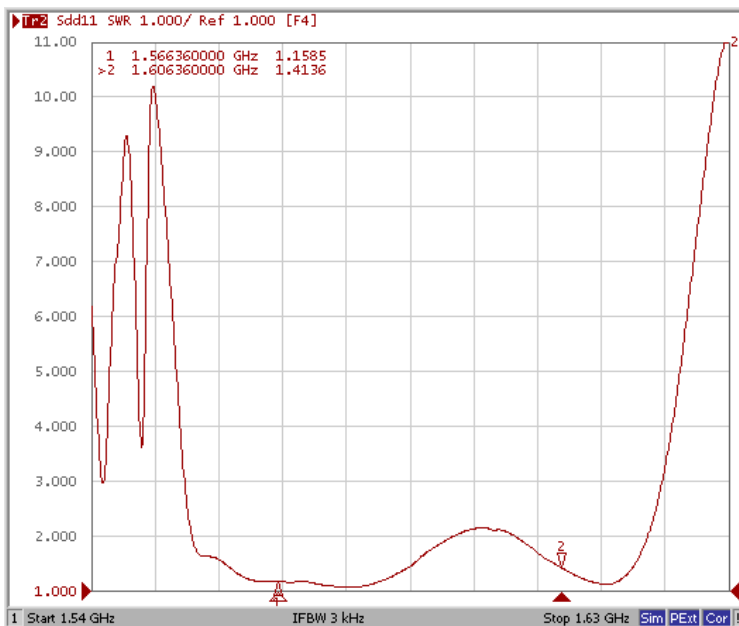
Model: TA0699B
Rev No: 1



Reflection Functions

S11

S22

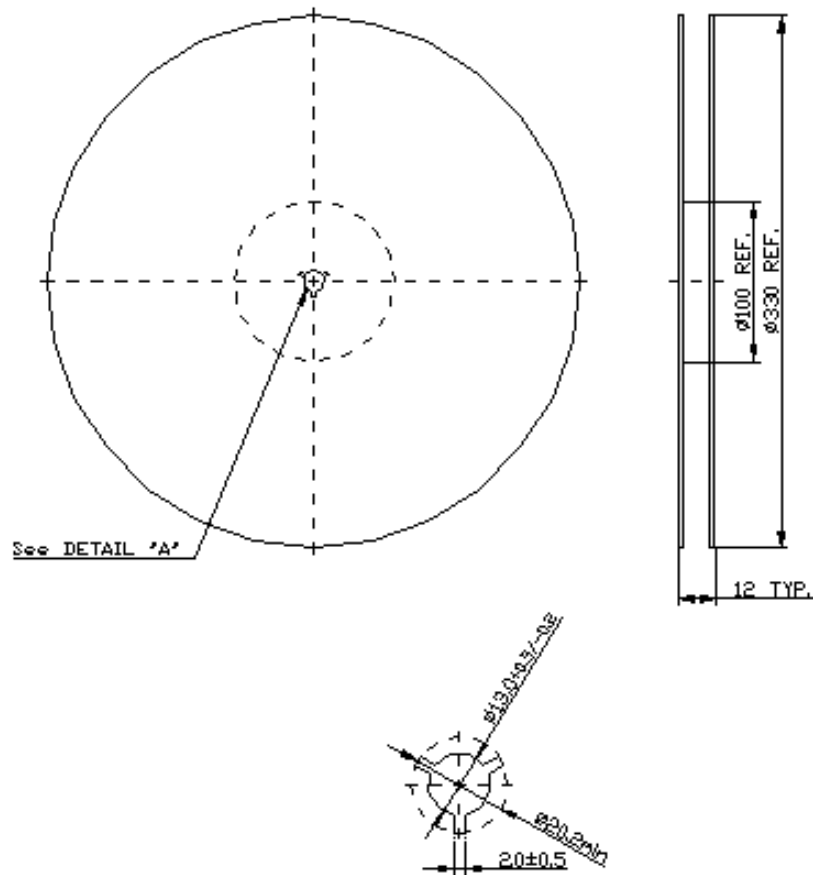


SAW Filter 1586.360MHz
Part No: MP06141

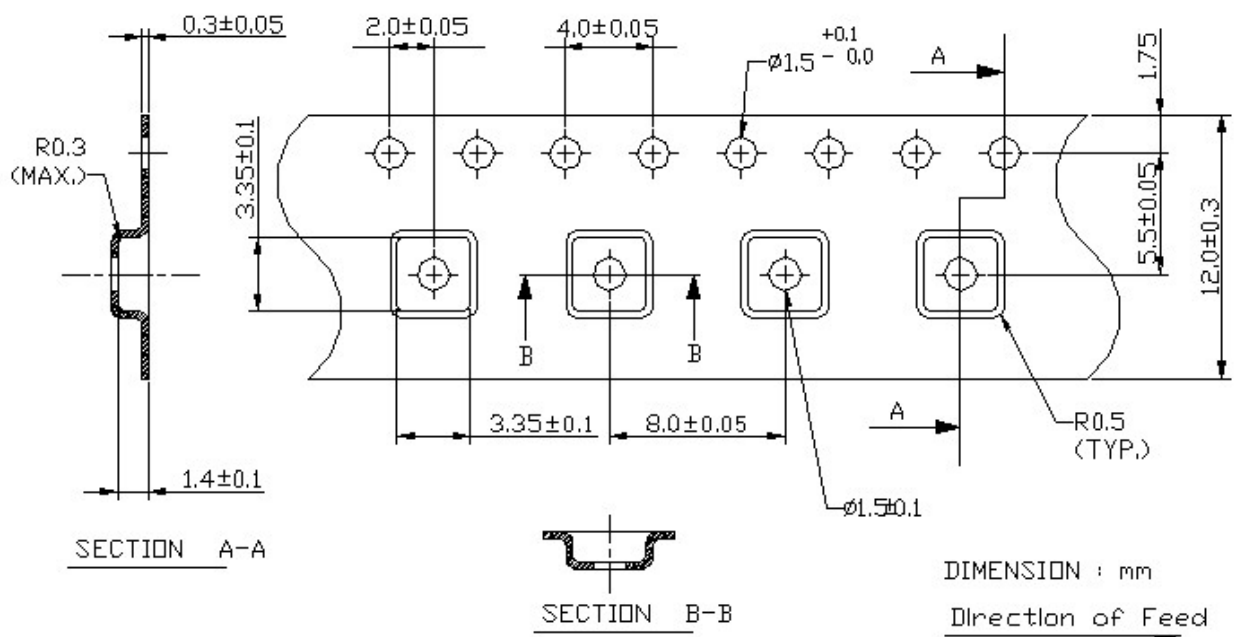
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Rev No: 1

G. PACKING:

1. Reel Dimension (Reel Count: 7" = 1000; 13" = 3000)



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.

