

**SAW Filter 1994.60MHz**  
**Part No: MP08067**

**Model: TA1550A**  
**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):  $Z_S = 150\Omega // 18nH$
2. Terminating load impedance (differential):  $Z_L = 150\Omega // 18nH$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1994.6	-	-
Bandwidth at -2dB	MHz	46	63	-	-
Insertion Loss in 1971.6MHz ~ 2017.6MHz	dB	-	2.6	5	-
Amplitude ripple (1971.6MHz ~ 2017.6MHz)	dB	-	0.8	2	-
Phase error (1971.6MHz ~ 2017.6MHz) (3)	deg	-	3.3	5	-
Group Delay ripple(1971.6MHz ~ 2017.6MHz)	ns	-	5	25	-
I/O VSWR (1971.6MHz ~ 2017.6MHz)		-	1.4	2.5	-
CMDR (1971.6MHz ~ 2017.6MHz)	dB	23	27	-	-
Attenuation (1)					
50 ~ 1912.5MHz	dB	41	49	-	-
2080.7 ~ 2150MHz	dB	41	57	-	-
2150 ~ 4250MHz	dB	38	45	-	-
4250 ~ 6000MHz	dB	30	41	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

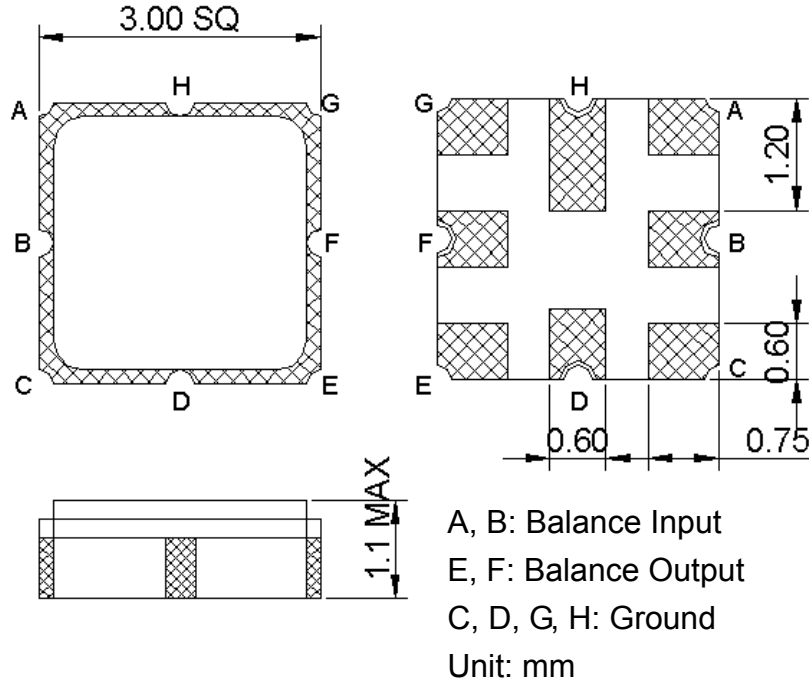
Notes:

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.

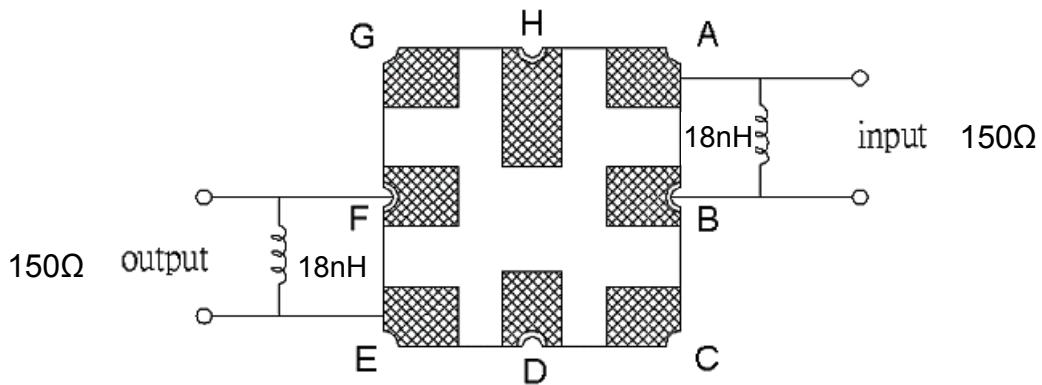
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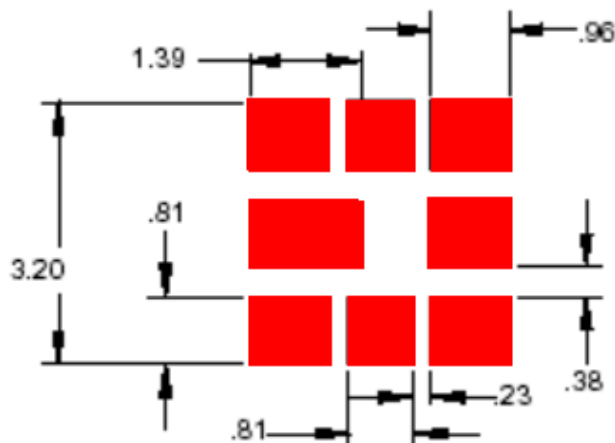
**C. OUTLINE DRAWING:**



**D. MEASUREMENT CIRCUIT:**



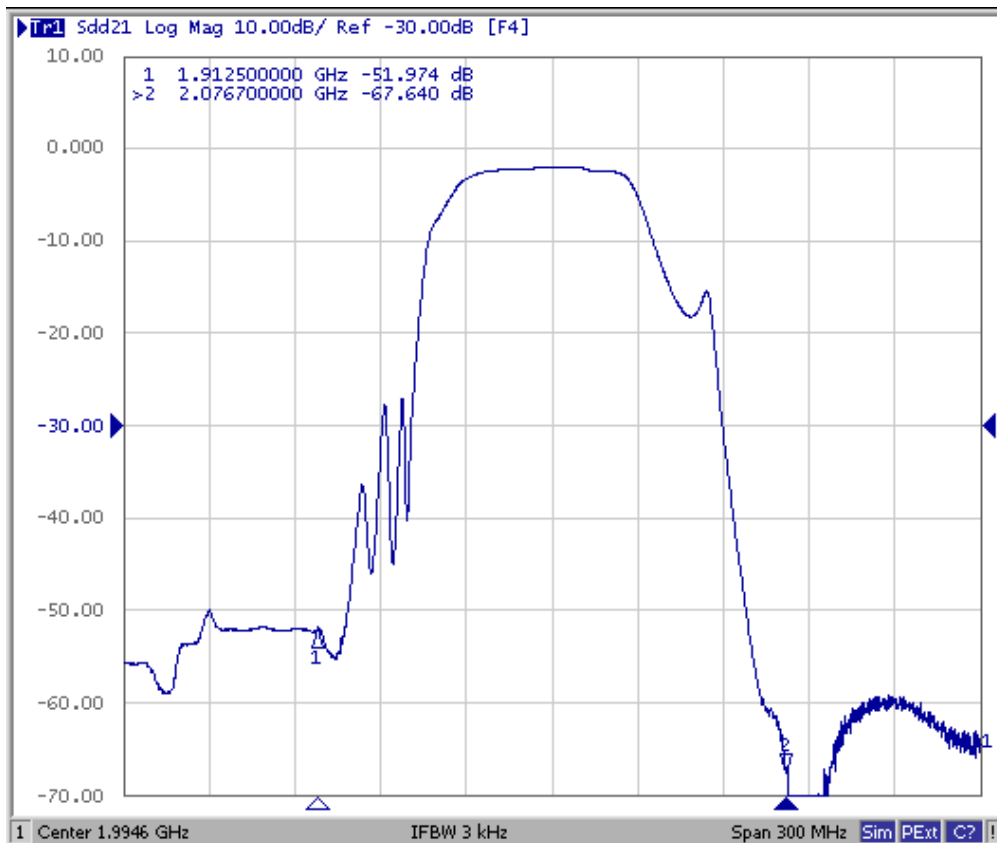
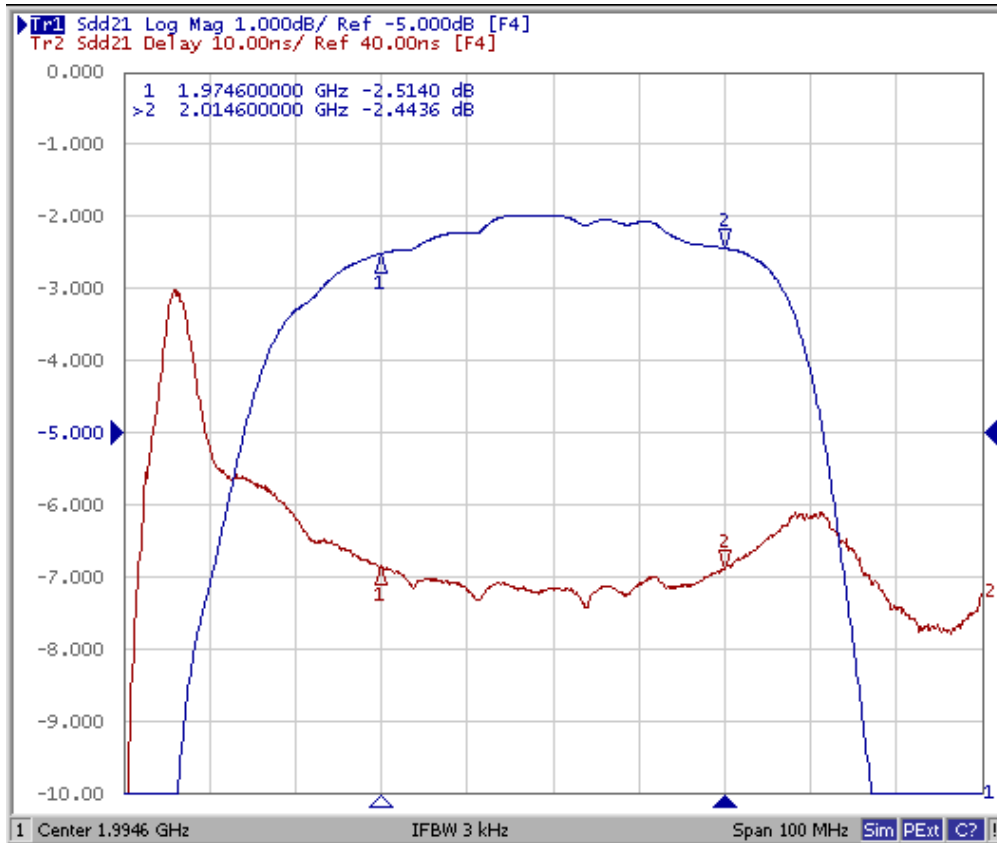
**E. PCB FOOTPRINT:**



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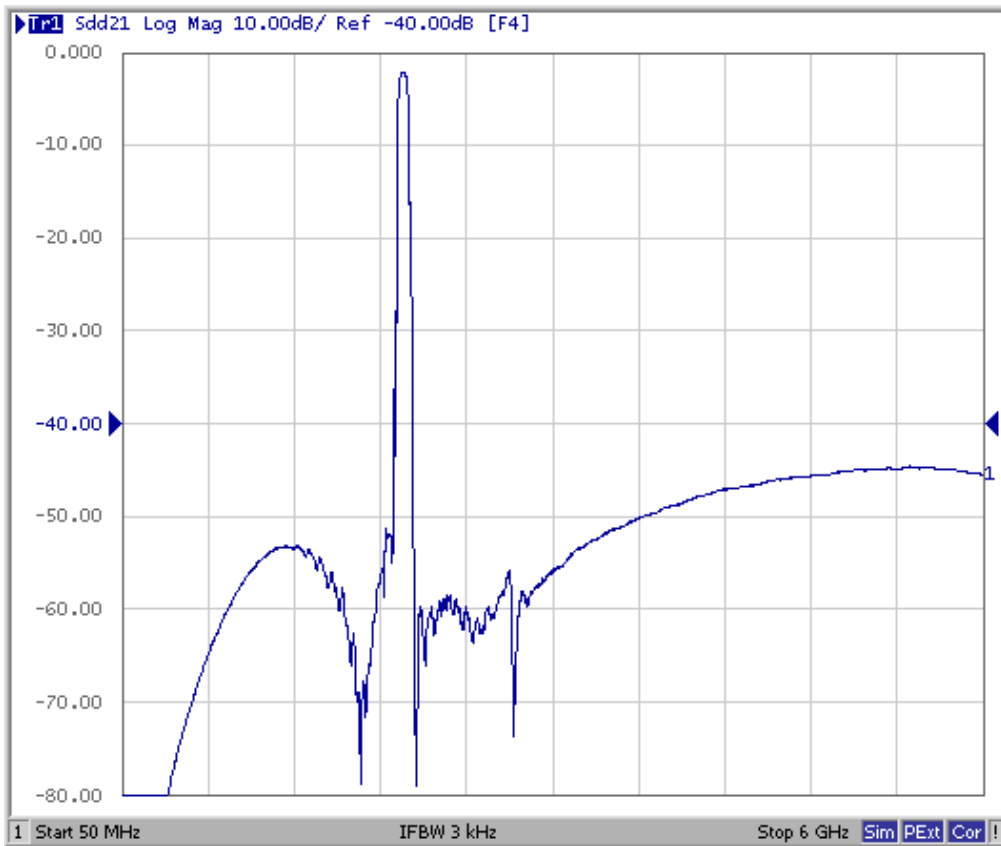
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**F. FREQUENCY CHARACTERISTICS:**



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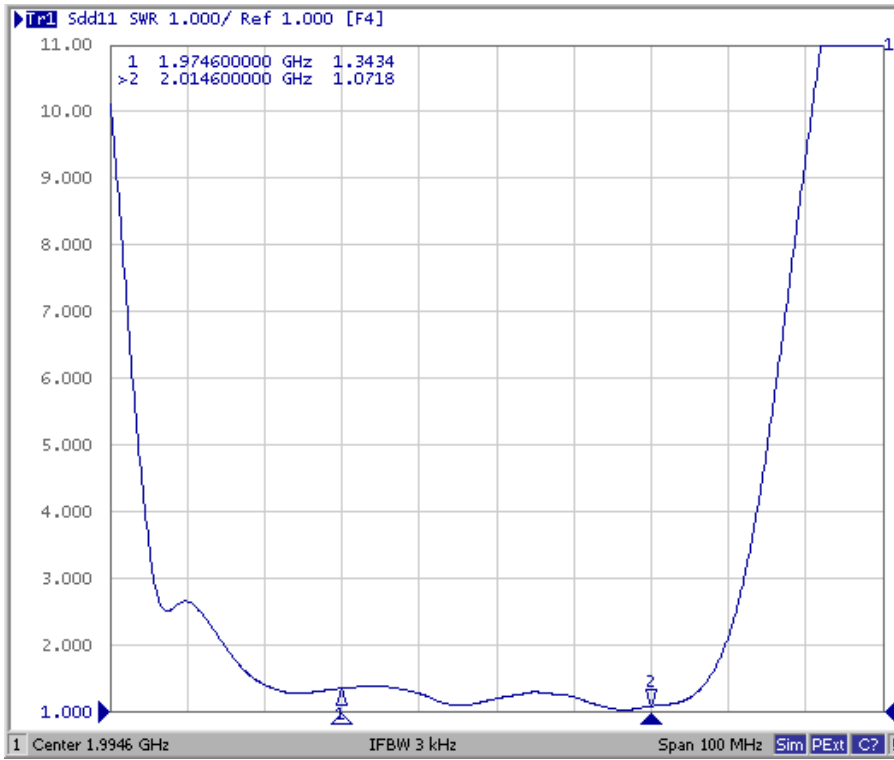


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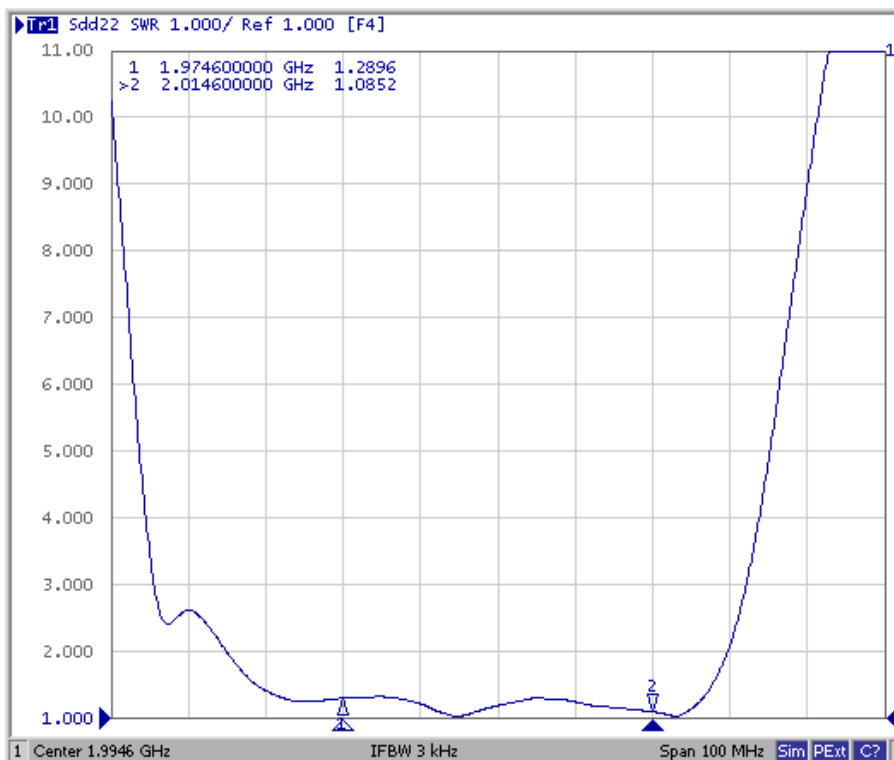
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Reflection Functions

S11



S22





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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. 10 sec).
4. Time: 2 times.

