

SAW Filter 1530.0MHz
Part No: MP05092

Model: TA1541A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

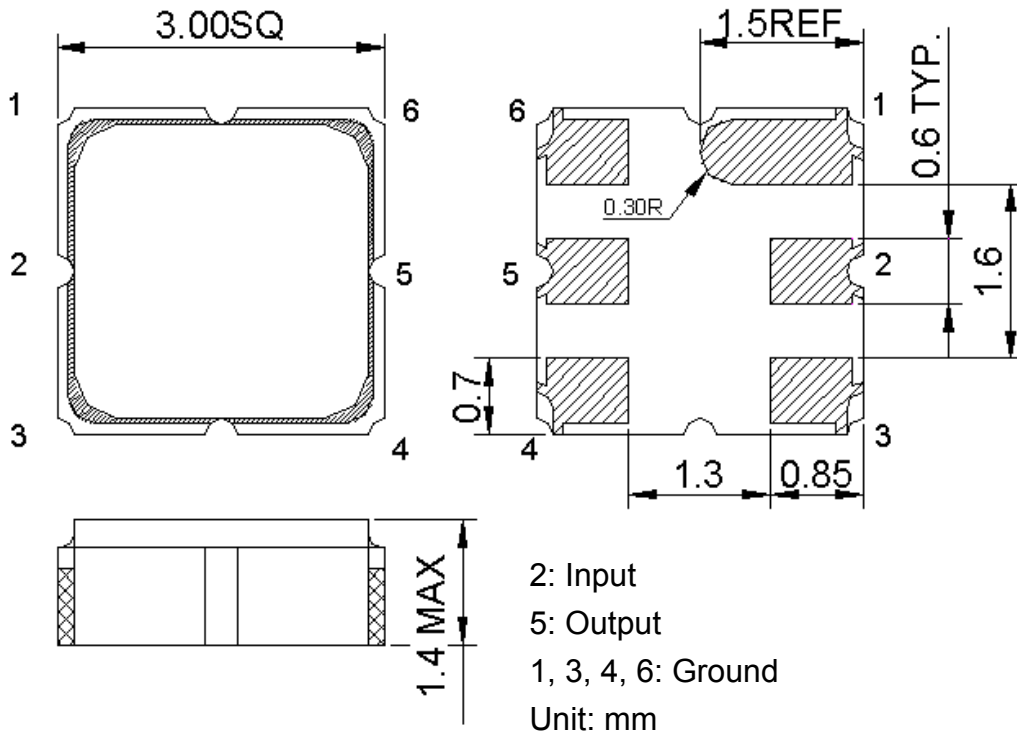
1. Terminating source impedance (single ended): $Z_S = 50\Omega$
2. Terminating load impedance (single ended): $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center frequency F_c	MHz	-	1530	-	-
Insertion Loss (1512.5 ~ 1547.5MHz) IL	dB	-	2.1	3	-
Amplitude Ripple (1512.5 ~ 1547.5MHz)	dB	-	0.4	1.5	-
VSWR (1512.5 ~ 1547.5MHz)		-	1.8	2.2	-
Attenuation (reference level from 0dB)					
1275 ~ 1305MHz	dB	40	44	-	-
1478MHz	dB	20	23	-	-
1800 ~ 1900MHz	dB	40	45	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

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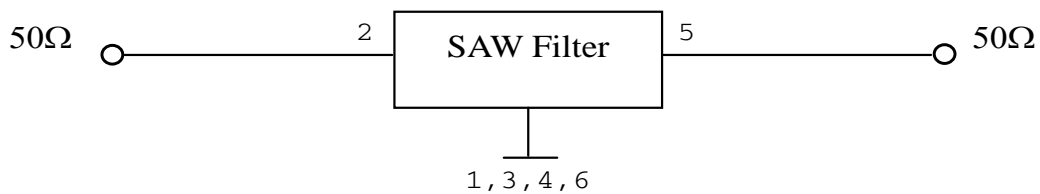
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C. OUTLINE DRAWING:

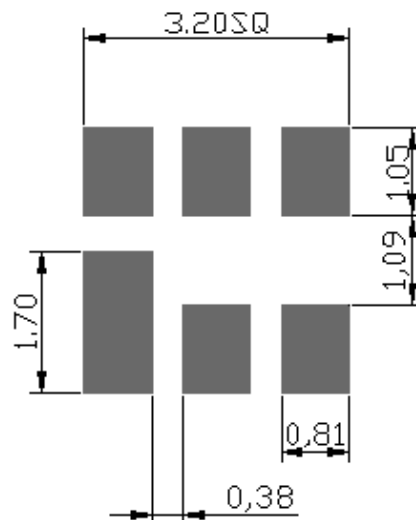


D. MEASUREMENT CIRCUIT:

HP Network analyzer



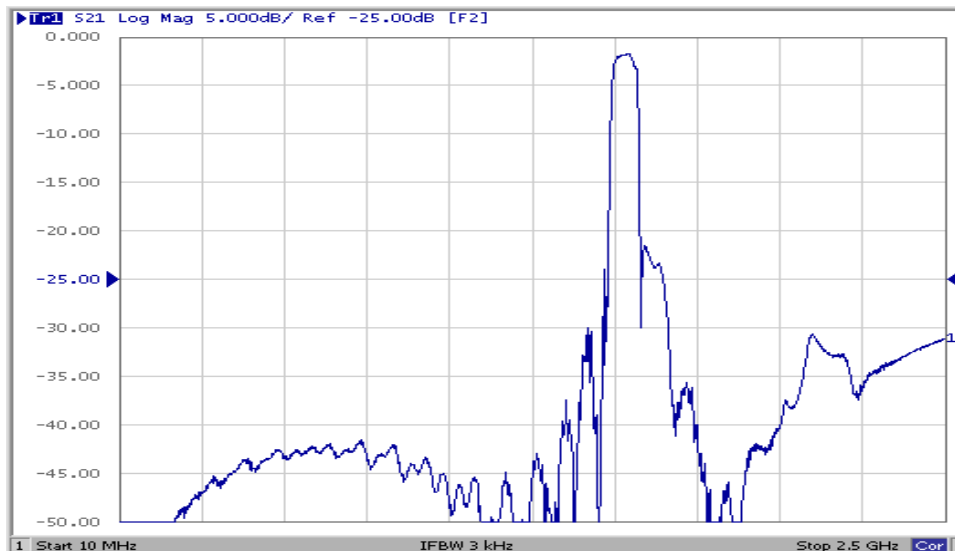
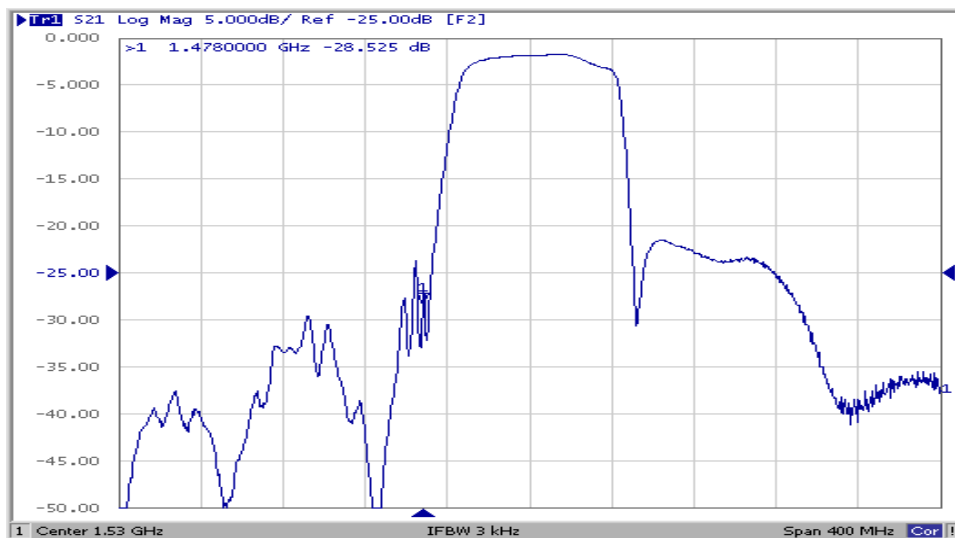
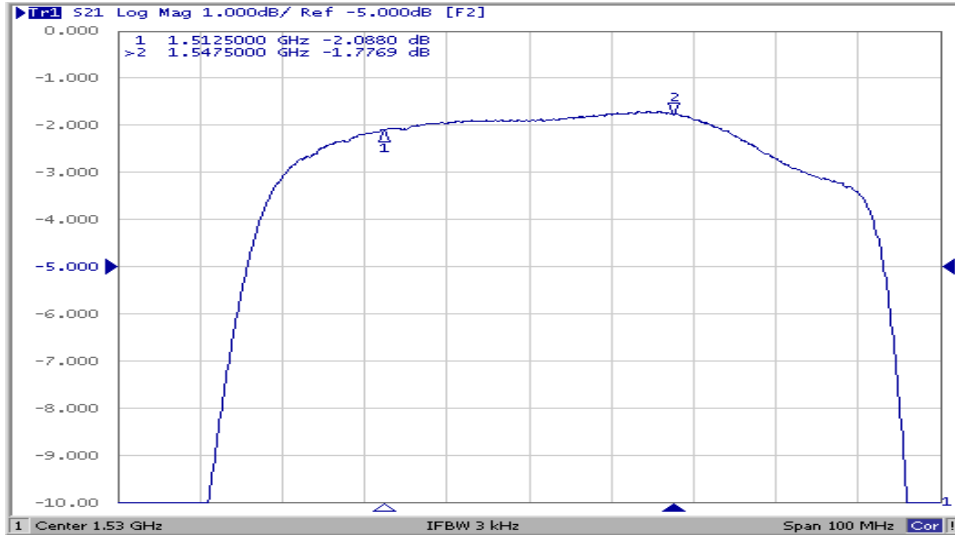
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

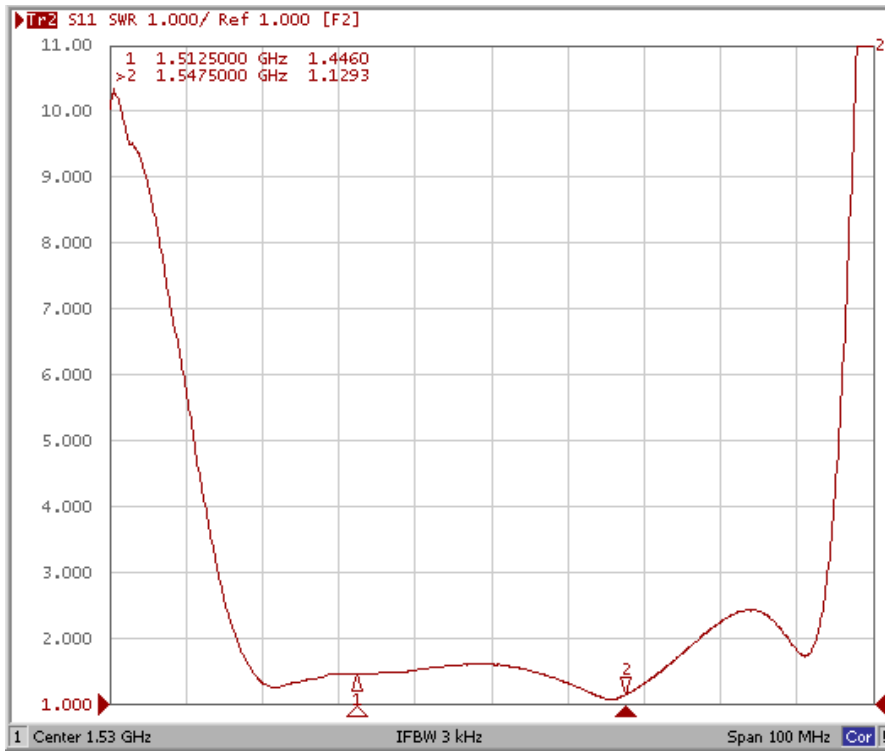


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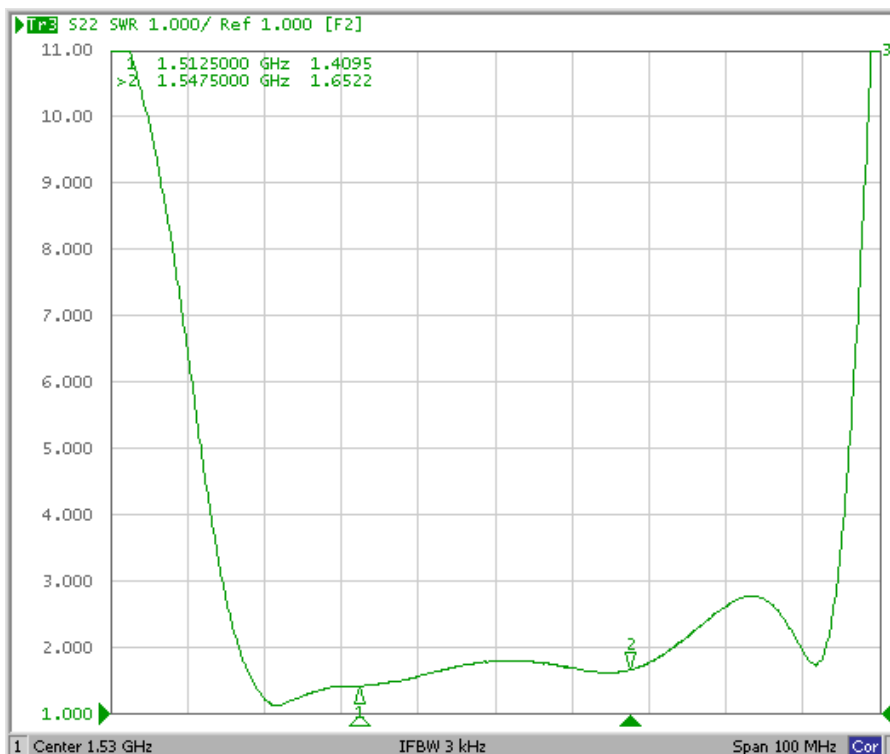
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Reflection Functions

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.

