

SAW Filter 1161.0MHz
Part No: MP08168

Model: TA1414B
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

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

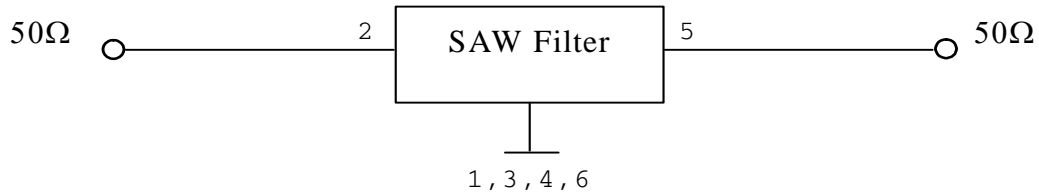
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1161	-	-
Insertion Loss (1144 ~ 1178MHz)	dB	-	2.9	4	-
Amplitude Variation (1144 ~ 1178MHz)	dB	-	0.8	2	-
Amplitude Variation over 3MHz	dB	-	0.3	1	-
VSWR (1144 ~ 1178MHz)		-	2	2.4	-
Group Delay Variation over 3MHz	ns	-	4.5	20	-
Attenuation (reference level from 0dB)					
DC ~ 1123MHz	dB	30	47	-	-
1197 ~ 1223MHz	dB	6	20	-	-
1223 ~ 2000MHz	dB	30	44	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

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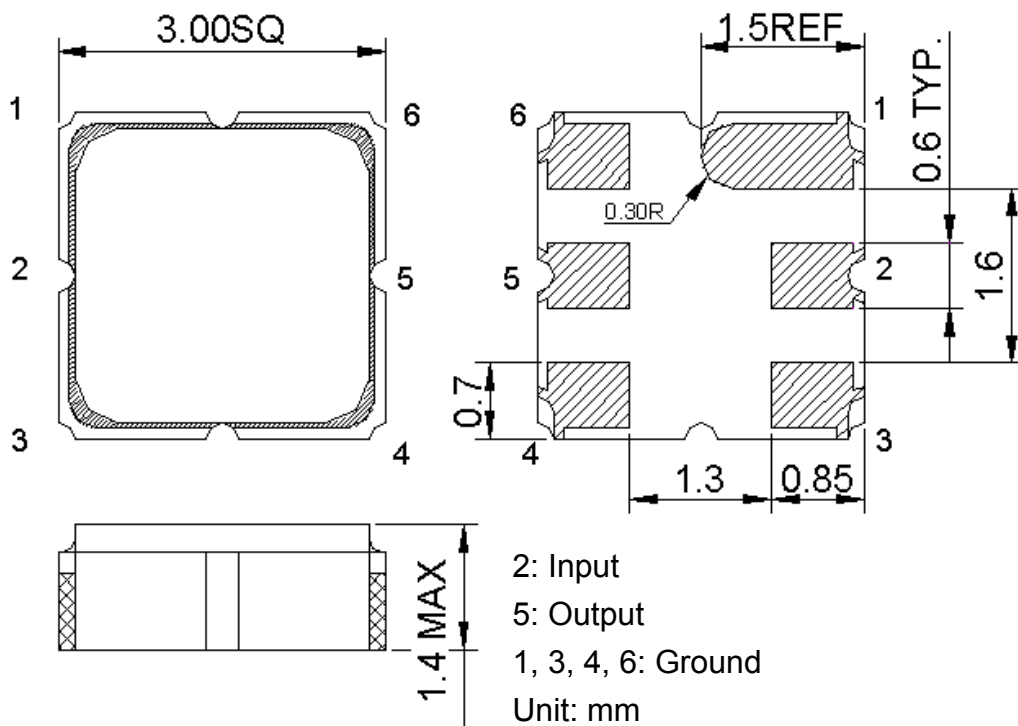
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C. MEASUREMENT CIRCUIT:

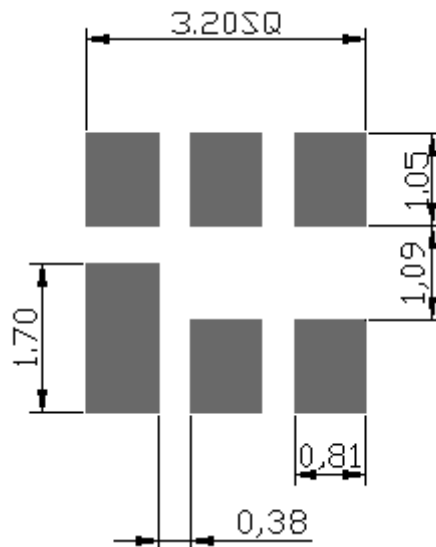
HP Network analyzer



D. OUTLINE DRAWING:



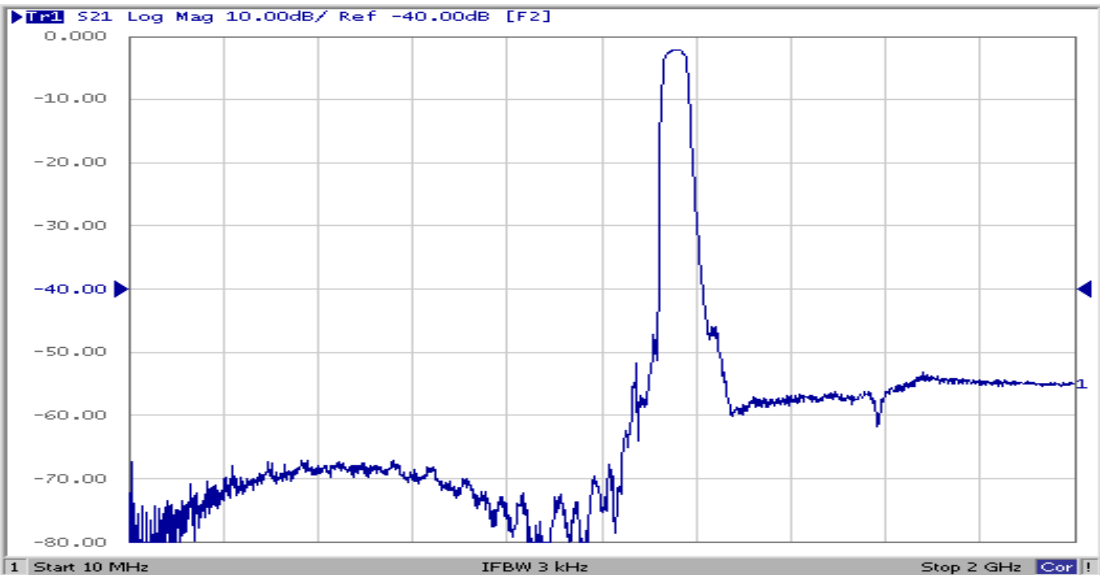
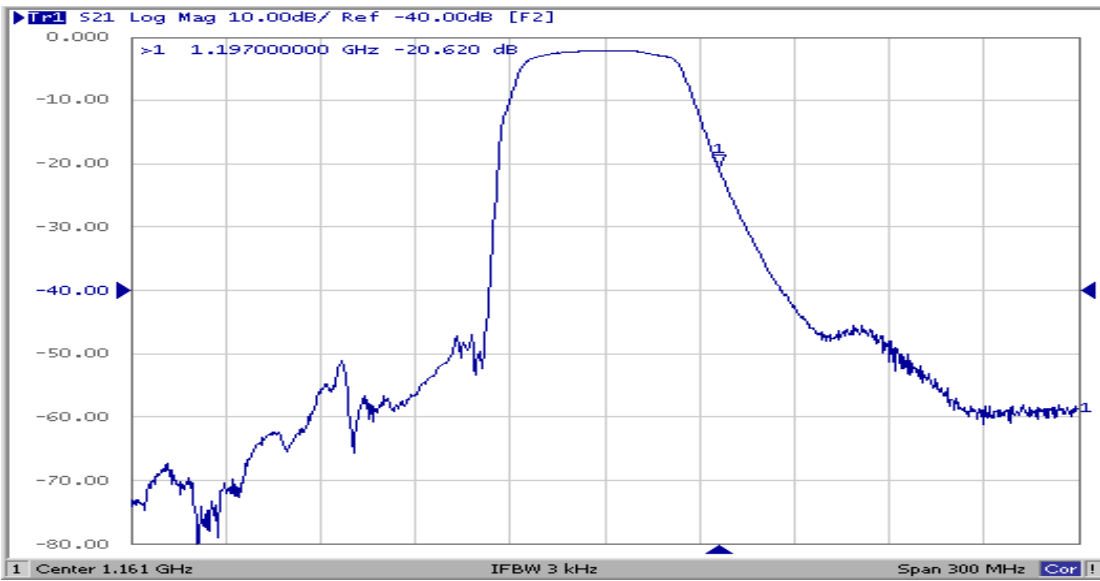
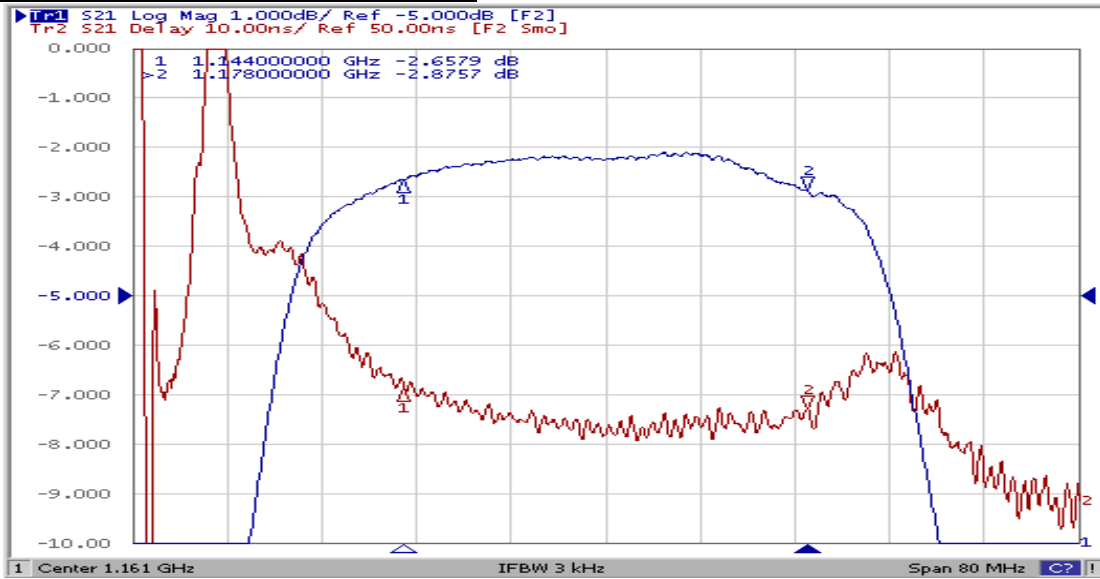
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

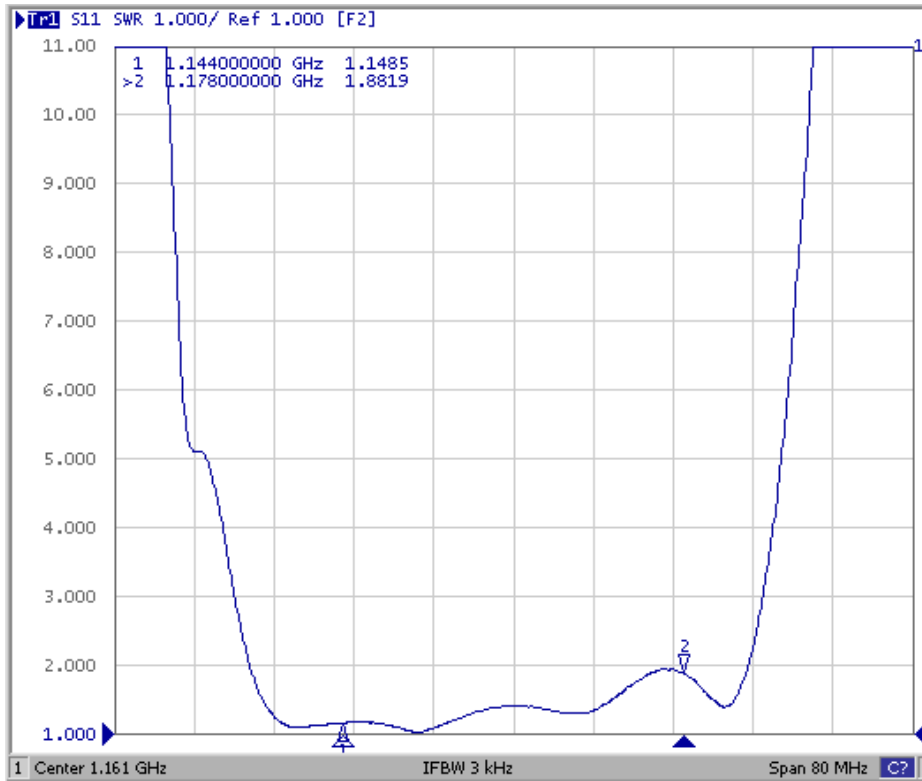


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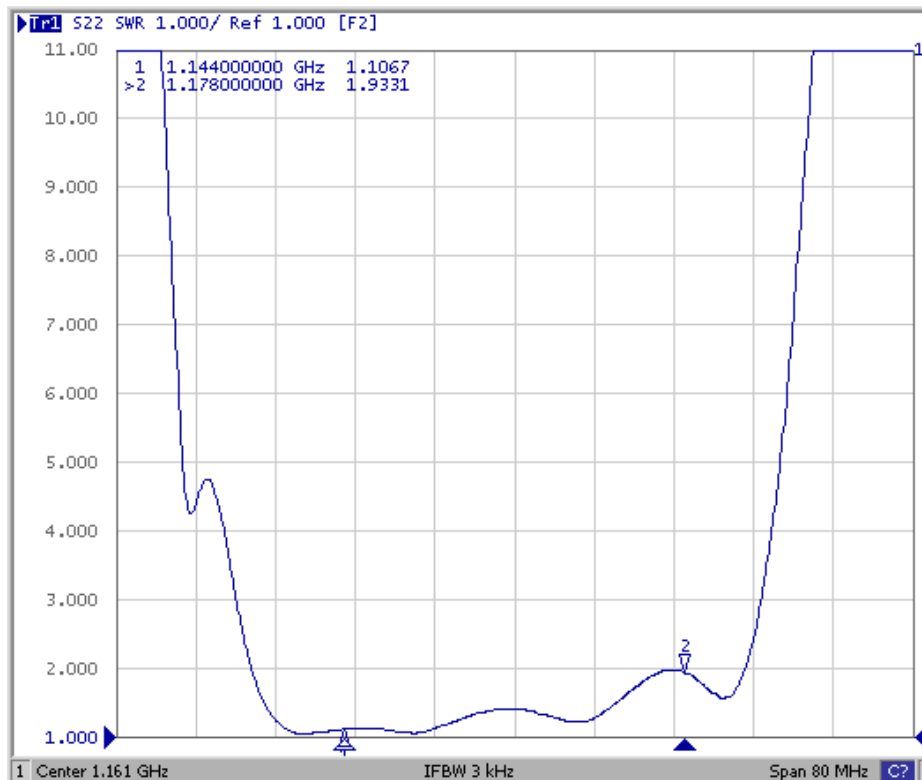
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Reflection Functions

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.

