

SAW Filter 942.50MHz

Model: TA0189A

Part No: MP08165

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC voltage: -5 ~ +5V
3. Operating Temperature: - 20°C to +75°C
4. Storage Temperature: -40°C to +85°C

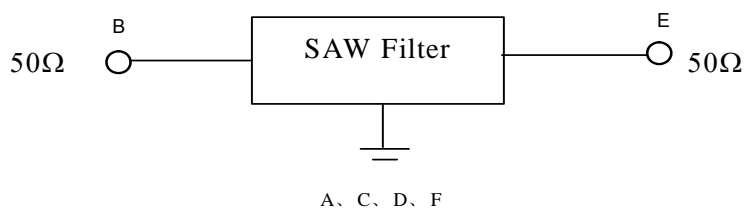
B. ELECTRICAL CHARACTERISTICS:

Characteristics	Min.	Typ.	Max.	Note
Center frequency Fc MHz	-	942.5	-	-
Insertion loss (925 ~ 960MHz) IL dB	-	2.8	3.5	-
Ripple(925 ~ 960MHz) dB	-	1.1	1.8	-
VSWR (925 ~ 960MHz) dB	-	2.0	2.5	-
Attenuation: (Reference level from 0dB)				
DC ~ 880MHz dB	26	32	-	
880 ~ 905 MHz dB	19	25	-	-
905 ~ 915 MHz dB	12	17	-	
980 ~ 1005 MHz dB	18	23	-	
1725 ~ 1760 MHz dB	32	44	-	
1760 ~ 3000 MHz dB	20	23	-	
Impedance at Fc: Input $Z_{IN} = R_{IN} // C_{IN}$	50Ω // 0pF			1
Output $Z_{OUT} = R_{OUT} // C_{OUT}$	50Ω // 0pF			1

Note 1: The standard definition is in JIS C 6703.

MEASUREMENT CIRCUIT:

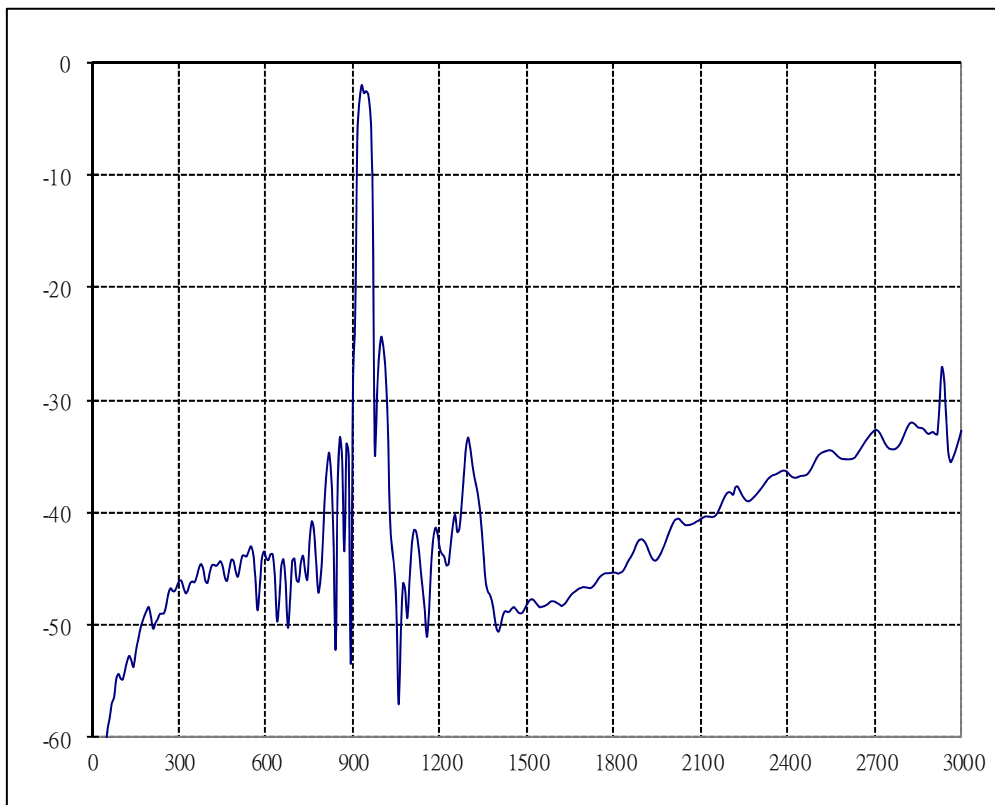
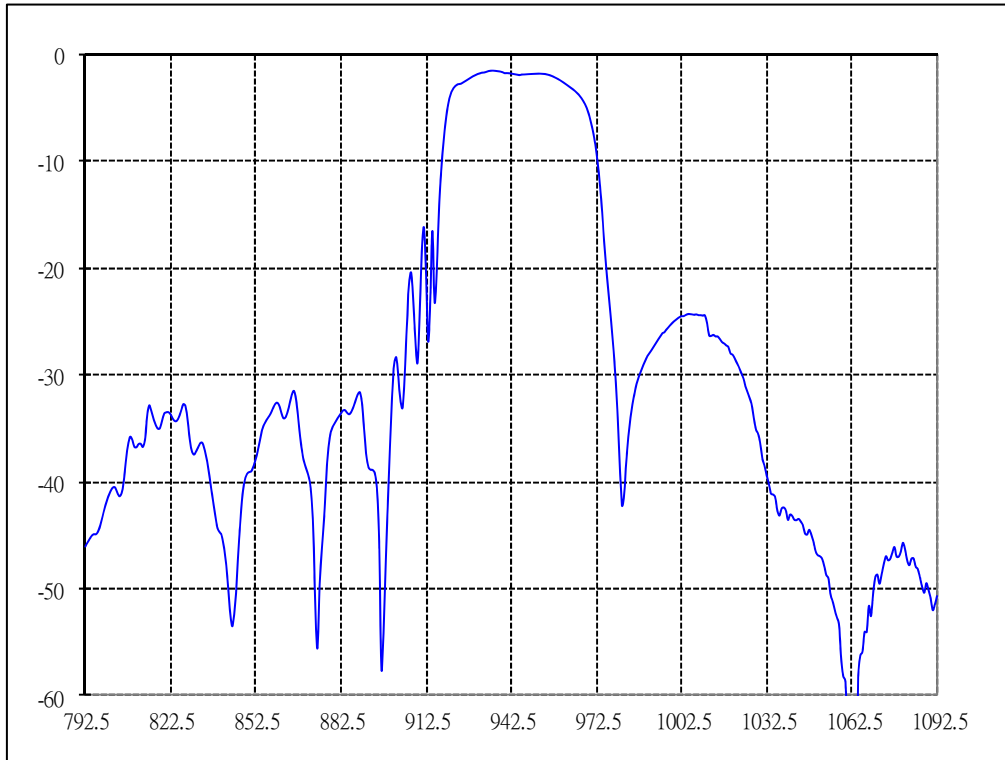
Network analyzer



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C. FREQUENCY CHARACTERISTICS:

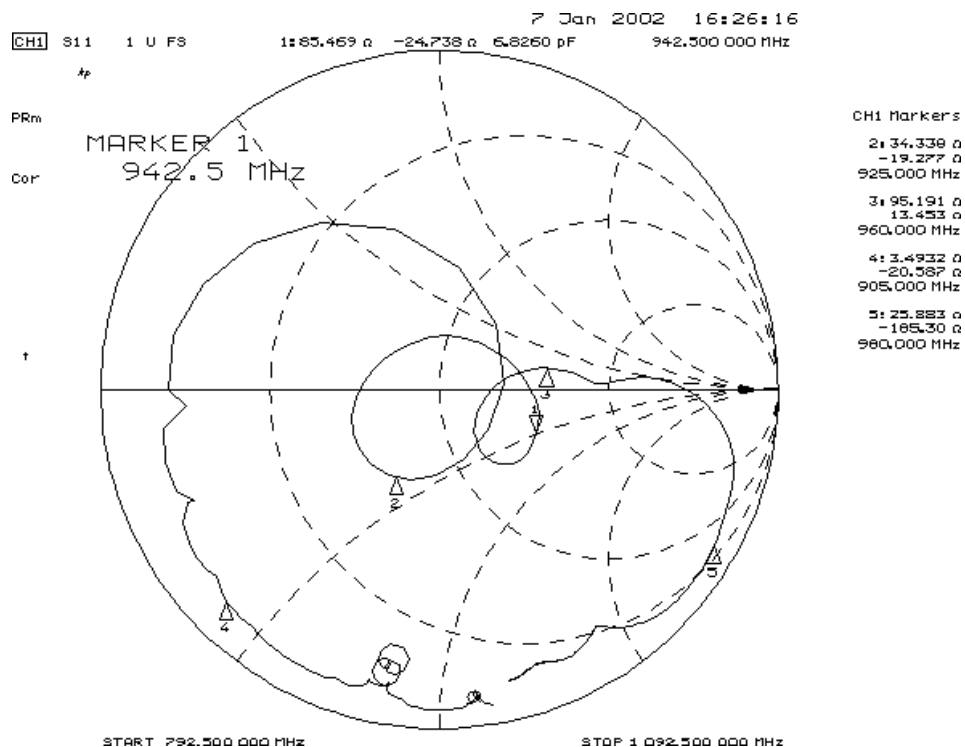
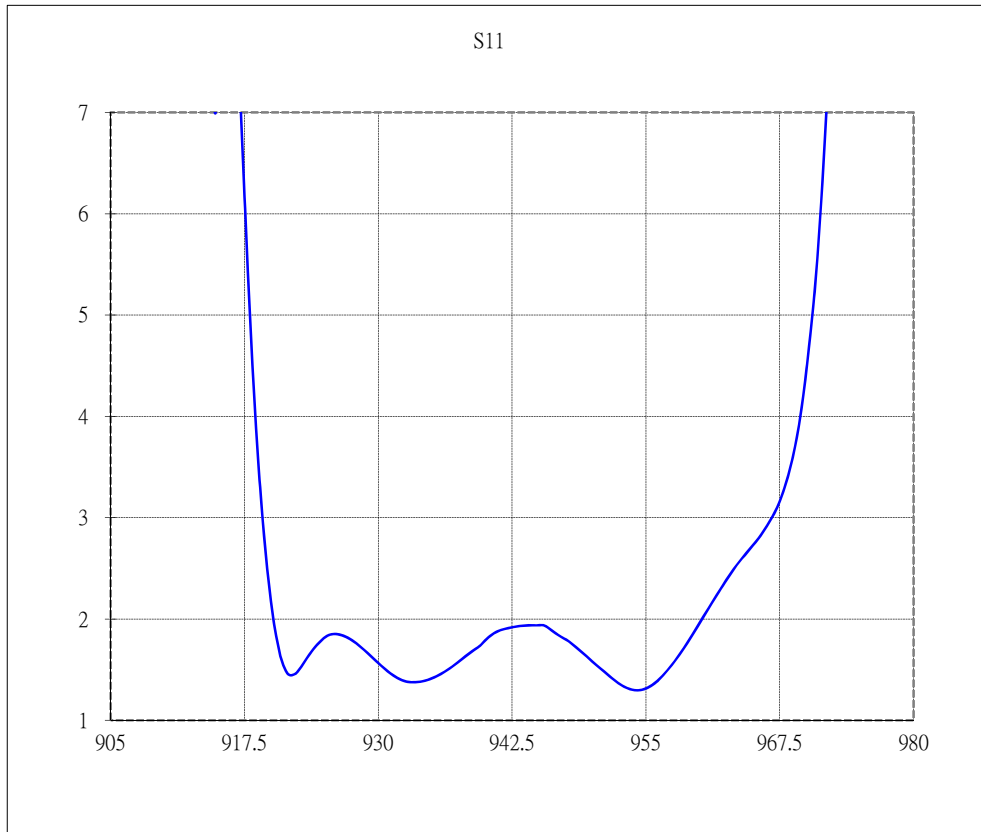


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VSWR and smith chart:

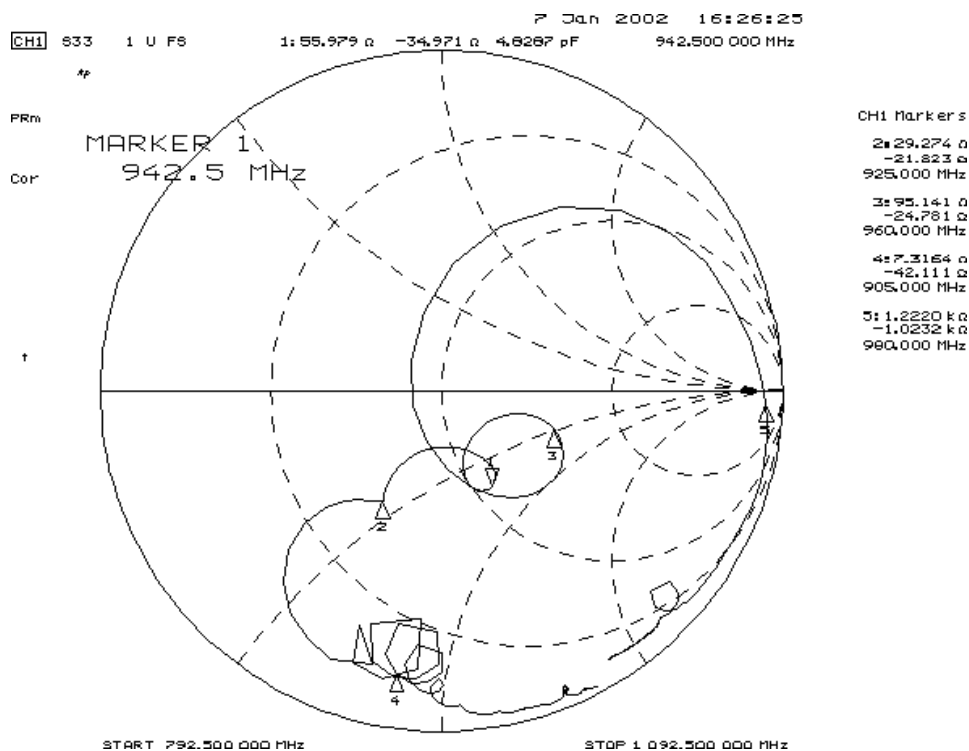
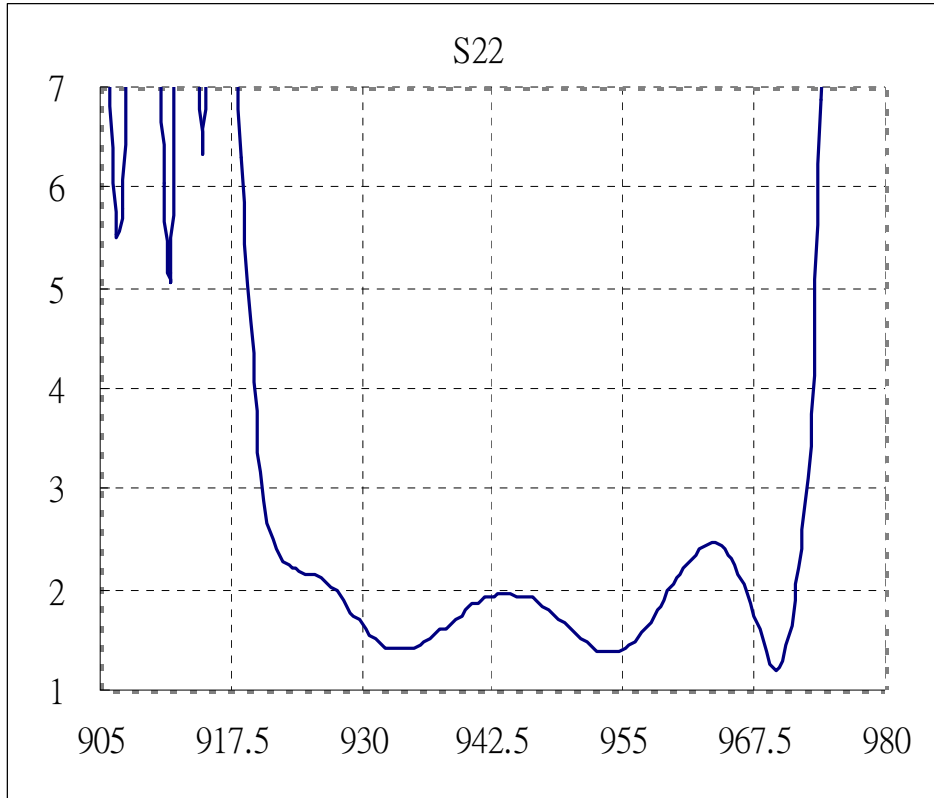
S11



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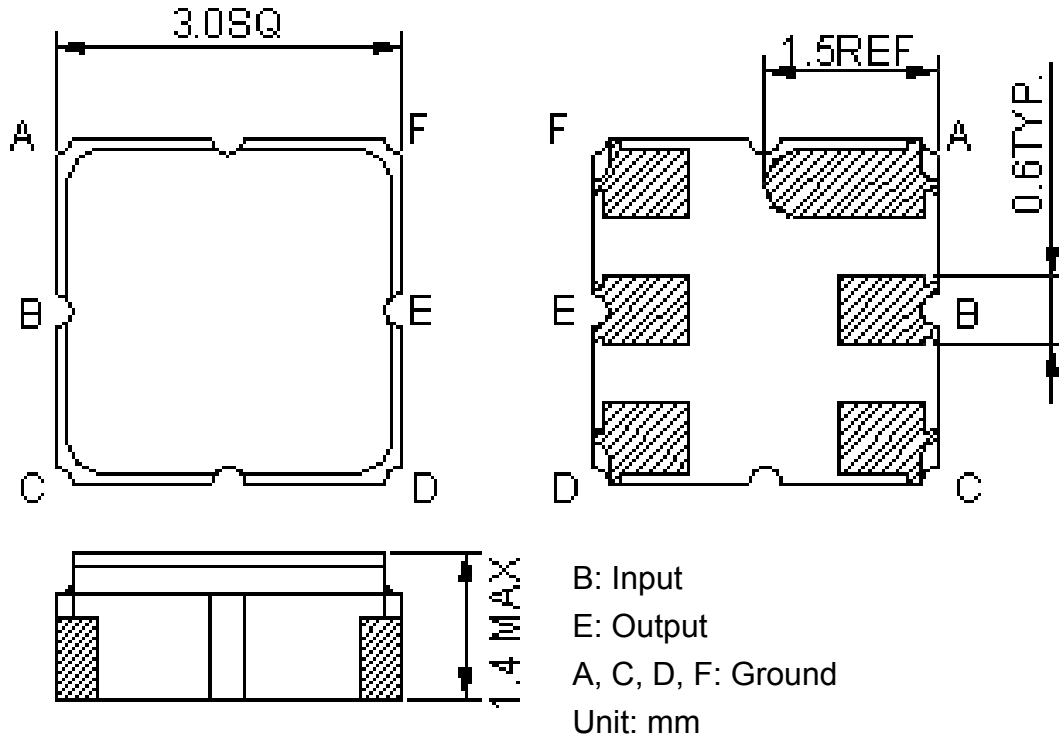
S22



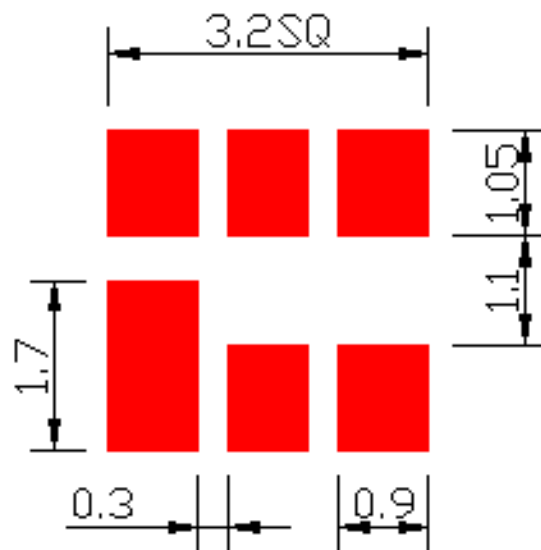
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D. OUTLINE DRAWING:



E. PCB FOOTPRINT:



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G. 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.

