

SAW Filter 942.50MHz
Part No: MP08163

Model: TA0394B
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC voltage: 3V
3. Operating Temperature: -40°C to +85°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	4.0	-
Ripple 925 ~ 960MHz dB	-	1.1	2.3	-
VSWR 925 ~ 960MHz	-	1.5	2.1	
Attenuation: (Reference level from 0dB)				
0 ~ 800MHz dB	50	60	-	-
800 ~ 880MHz dB	40	53	-	-
880 ~ 905MHz dB	30	47	-	-
980 ~ 982MHz dB	16	27	-	-
982 ~ 1005MHz dB	23	29	-	-
1005 ~ 1025MHz dB	29	41	-	-
1025 ~ 1760MHz dB	40	48	-	-
1760~ 2300MHz dB	30	40	-	-
2300 ~ 3000MHz dB	20	28	-	-
Source Impedance Z _S Ω		50		1
Load Impedance Z _L Ω		50		1

Note 1: No matching network required for operation at 50Ω

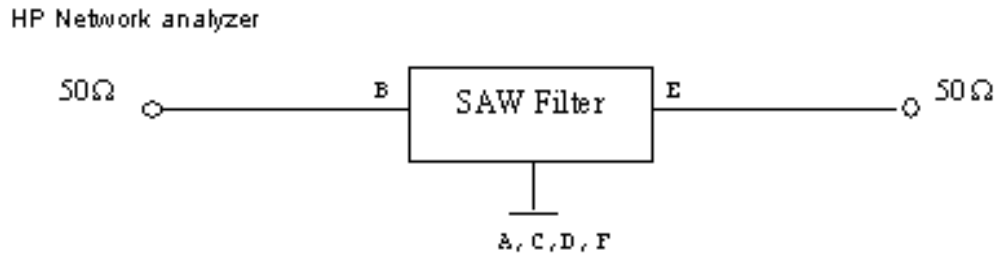
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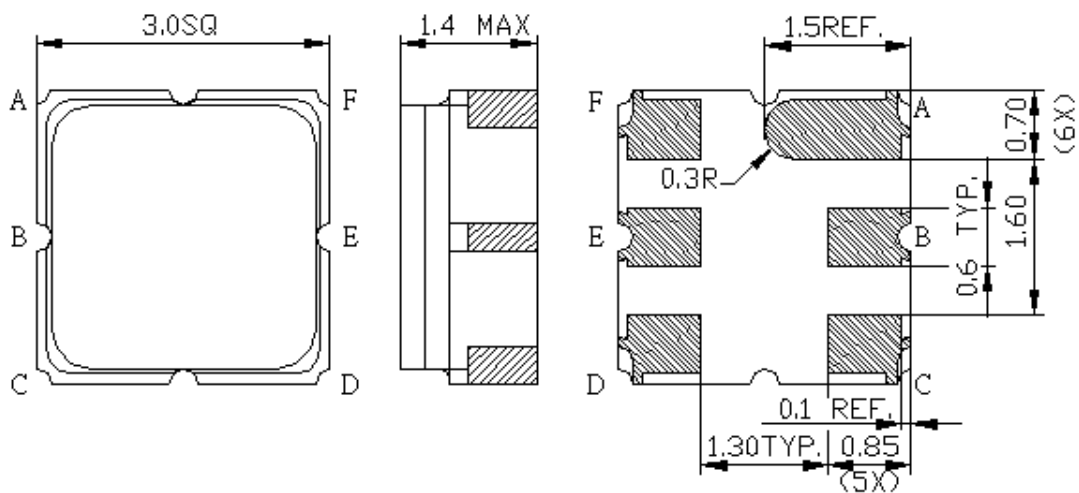
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C. MEASUREMENT CIRCUIT:

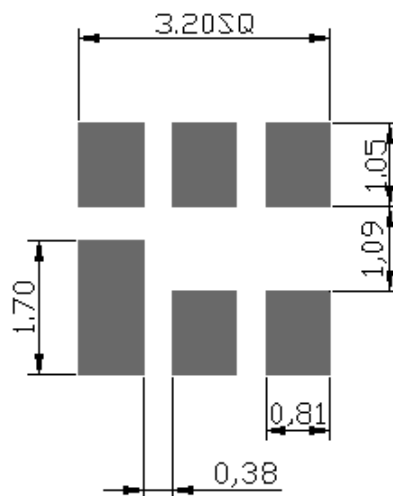


D. OUTLINE DRAWING:



B: Input
 E: Output
 A, C, D, F: Ground
 Unit: mm

E. PCB FOOTPRINT:

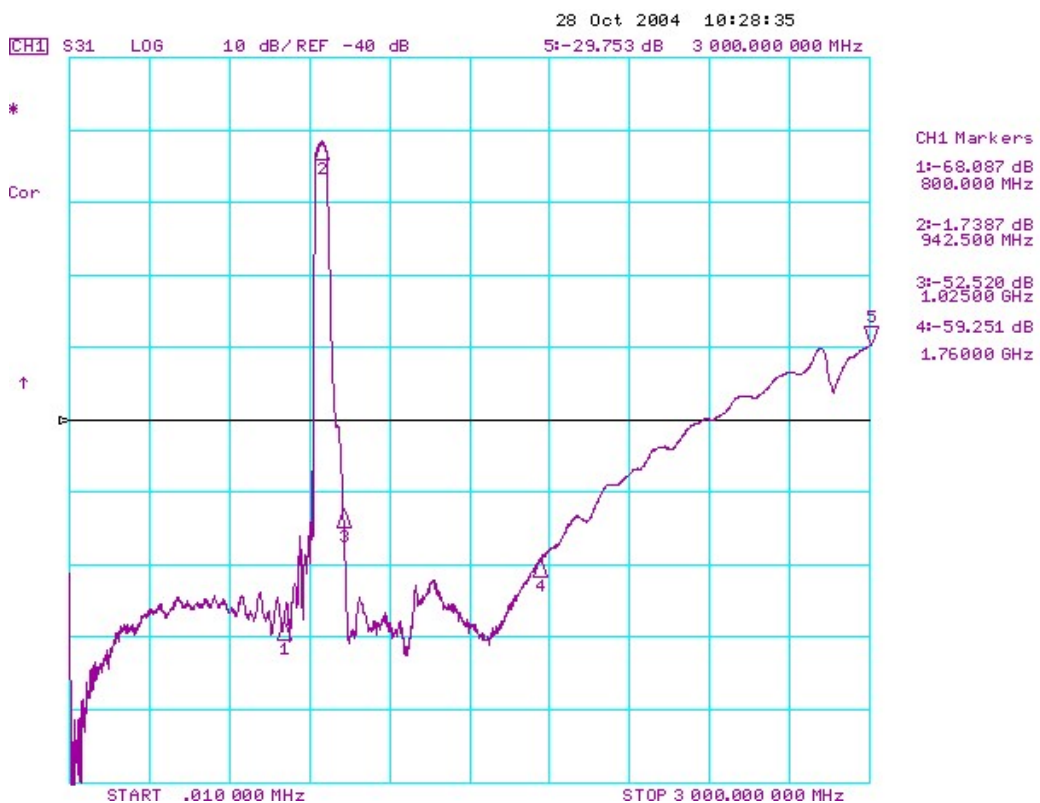
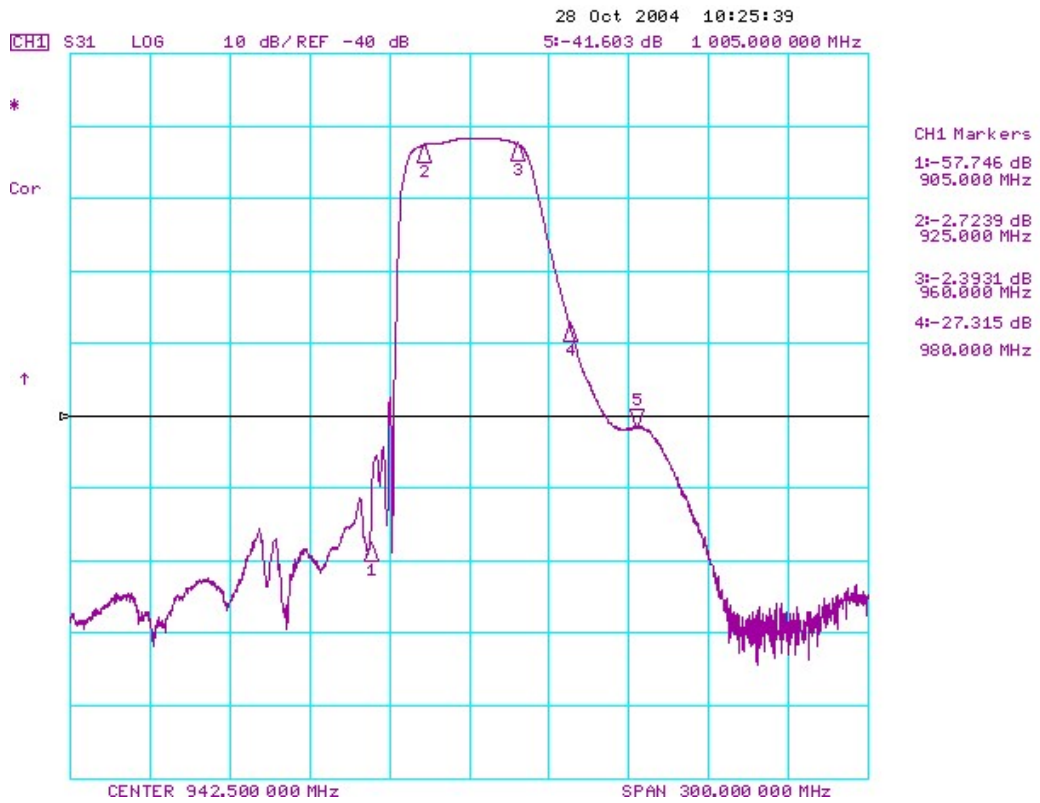


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F. FREQUENCY CHARACTERISTICS:

1. Transfer Functions

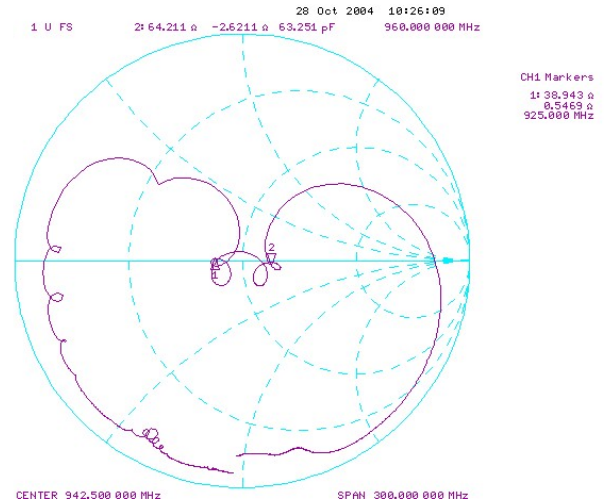
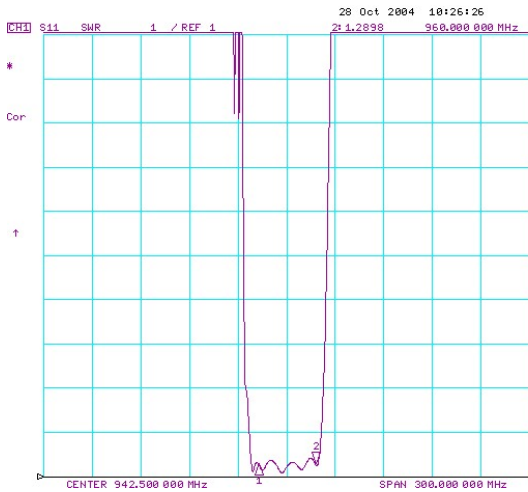


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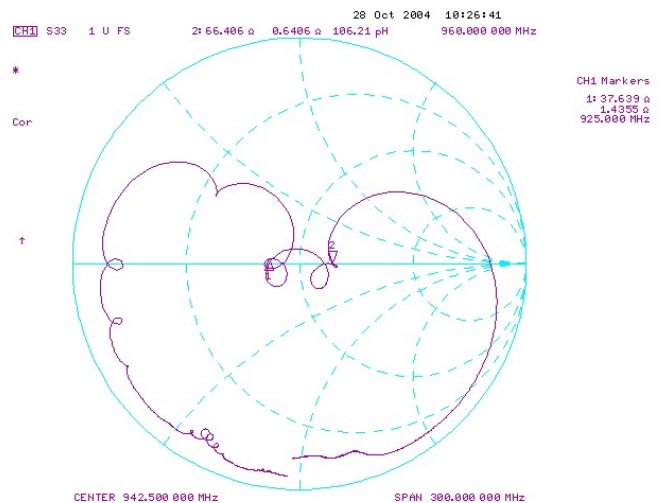
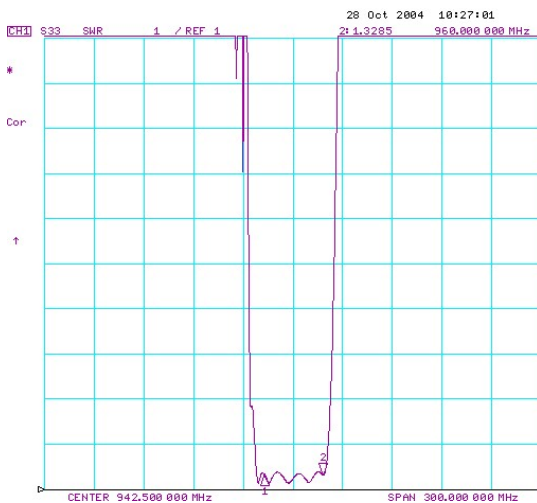
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2. Reflection Functions

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 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

