

SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

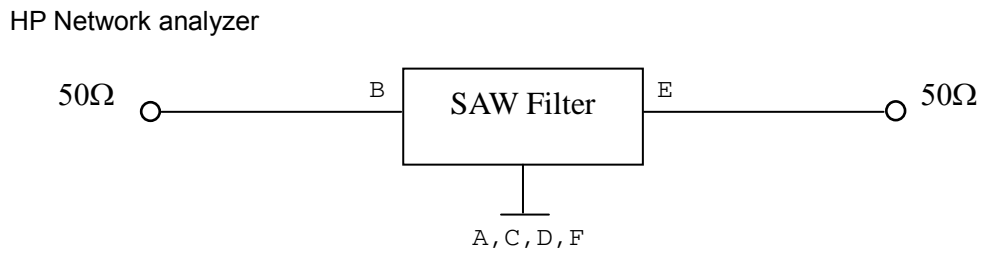
Characteristics	Specification			Note
	Min.	Typ.	Max	
Center frequency Fc MHz	-	2157.5	-	-
Insertion loss 2140 ~ 2175MHz dB	-	3.1	4.0	-
Amplitude ripple 2140 ~ 2175MHz dB	-	1.1	2.0	-
VSWR 2140 ~ 2175MHz	-	1.6	2.4	-
Group delay ripple 2140 ~ 2175MHz ns		7.0	16	
Attenuation: (Reference level from 0dB)				
0 ~ 1985MHz dB	33	42	-	-
1985 ~ 2085MHz dB	25	36	-	-
2230 ~ 2330 MHz dB	25	51	-	-
2330 ~ 3435 MHz dB	31	50	-	-
3435 ~ 4000 MHz dB	23	45	-	-
Impedance at Fc Input $Z_{IN} = R_{IN} // C_{IN}$	50Ω // 0PF			1
Output $Z_{OUT} = R_{OUT} // C_{OUT}$	50Ω // 0PF			1

Note1. No matching network required for operation at 50Ω.

SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

C. MEASUREMENT CIRCUIT:

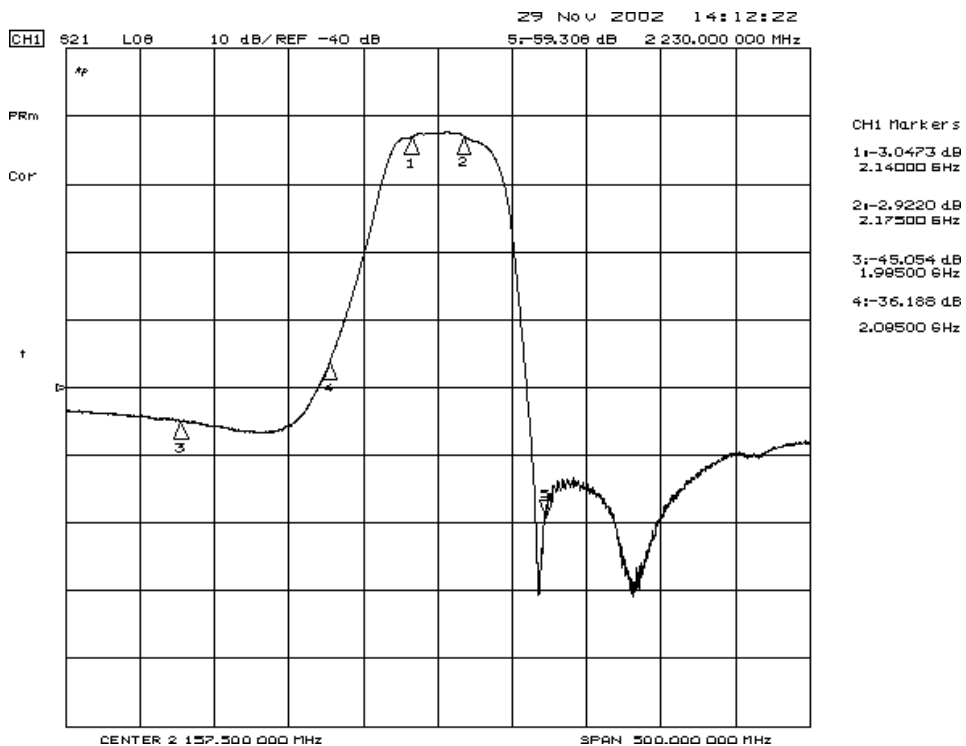
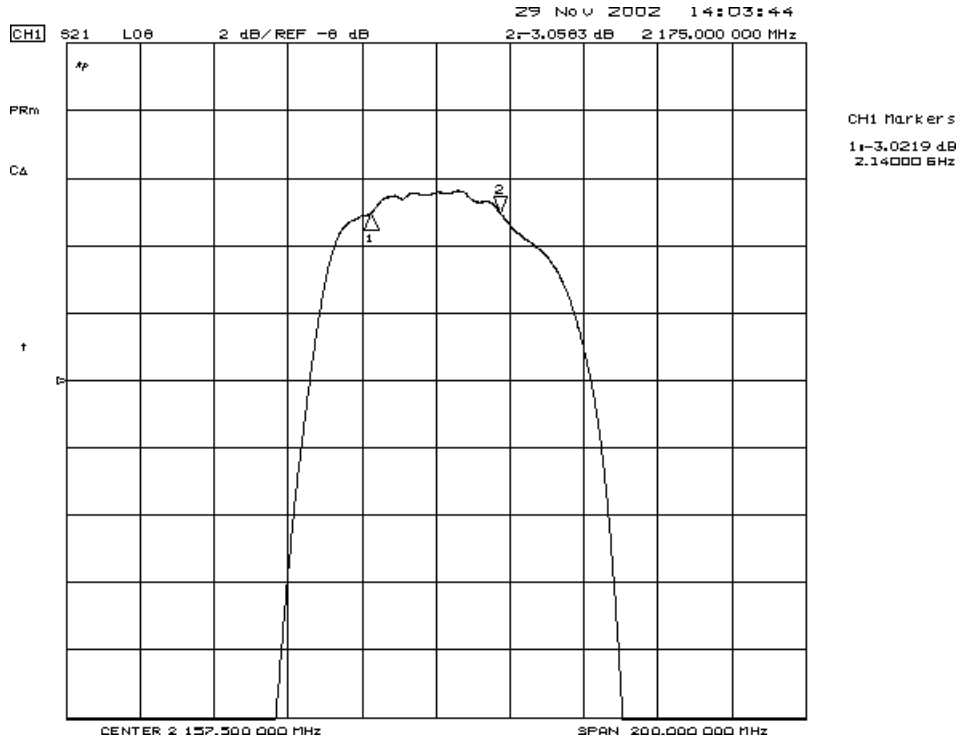


SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

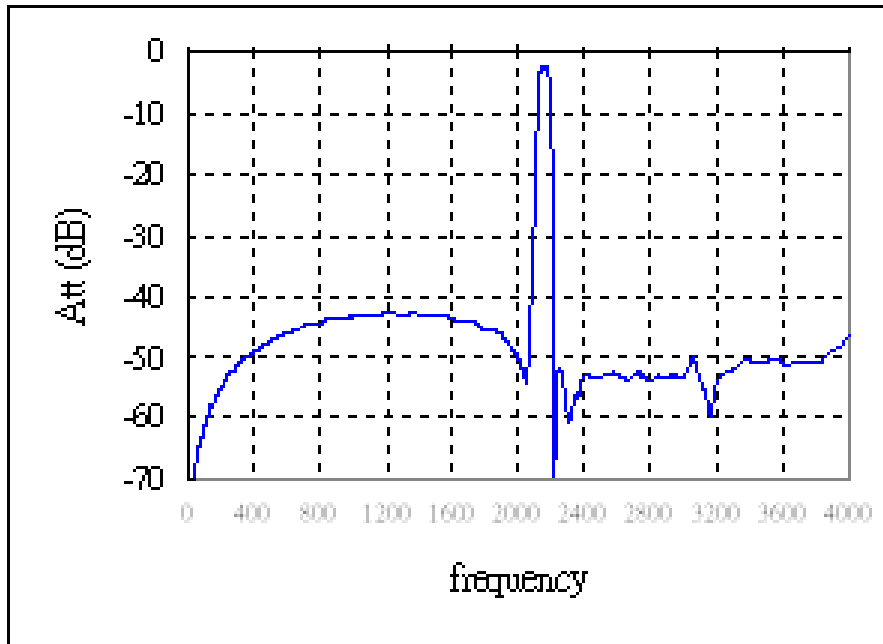
D. FREQUENCY CHARATERISTICS:

Transfer Functions



SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

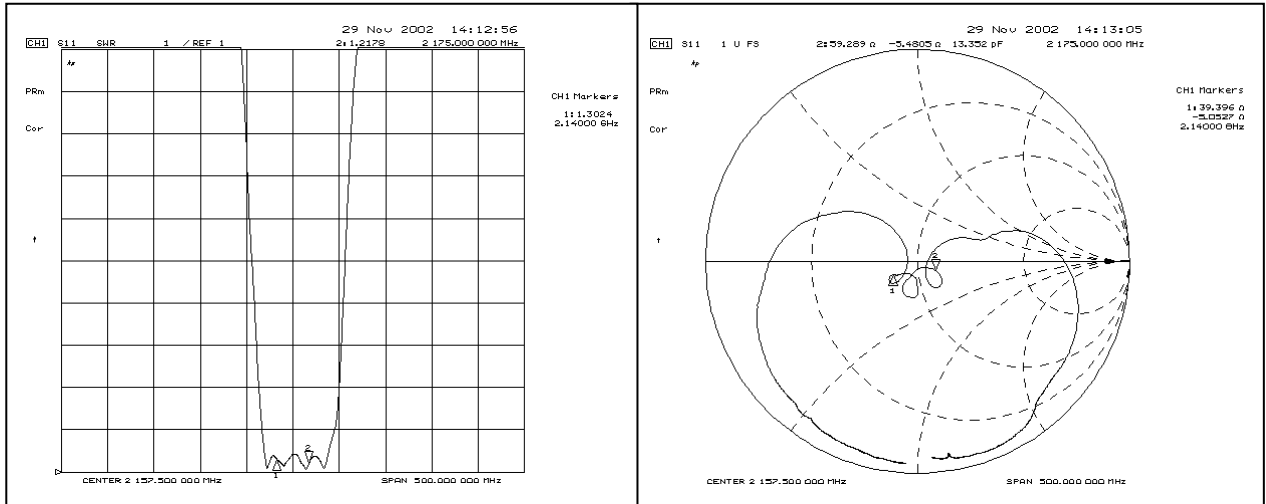


SAW Filter: 2157.50MHz
Part No: MA05752

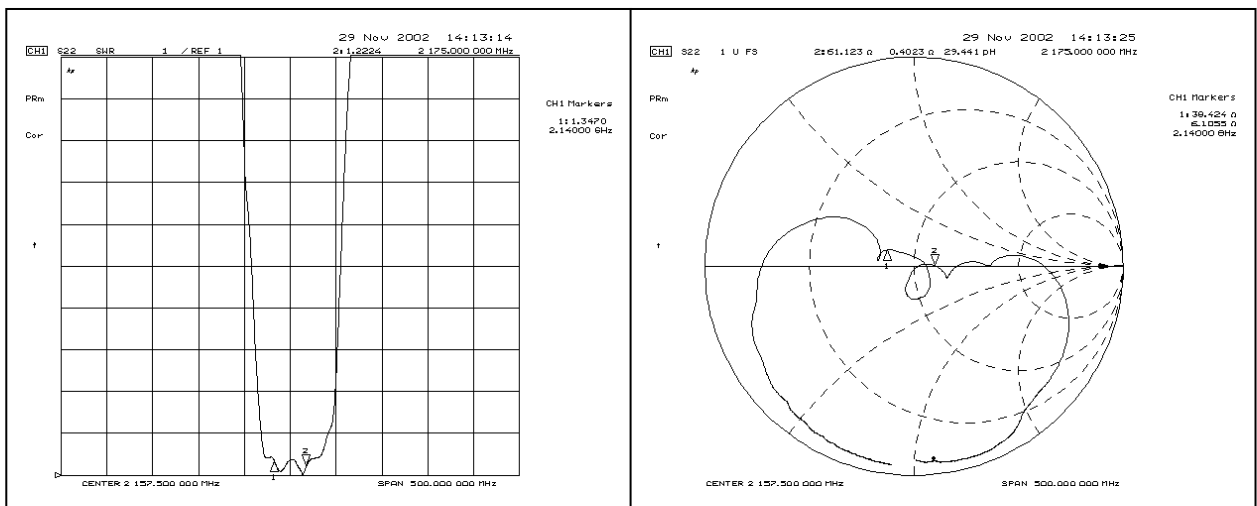
Model: TA0229A
Rev No: 2

Reflections Functions

S11



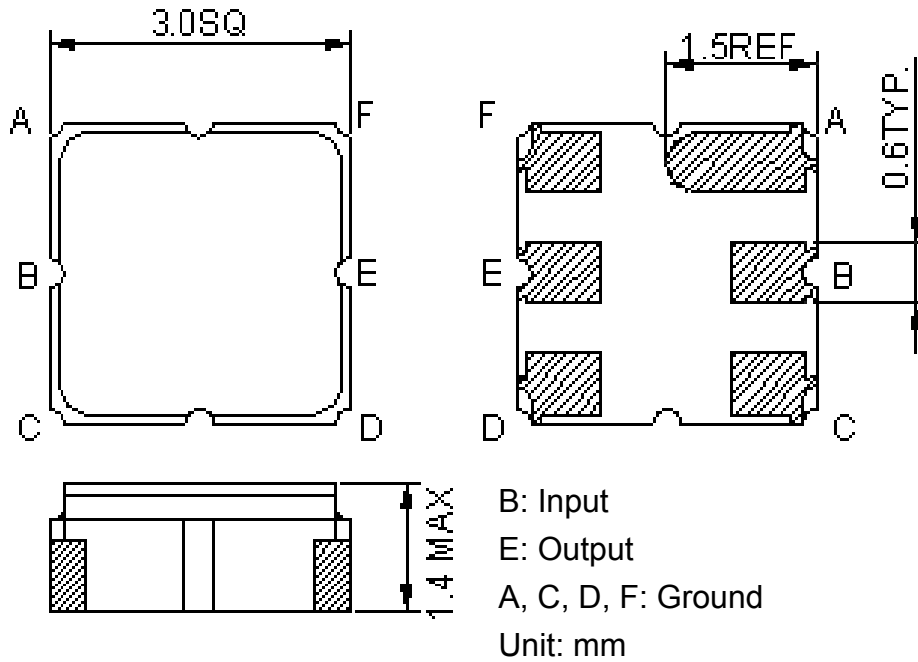
S22



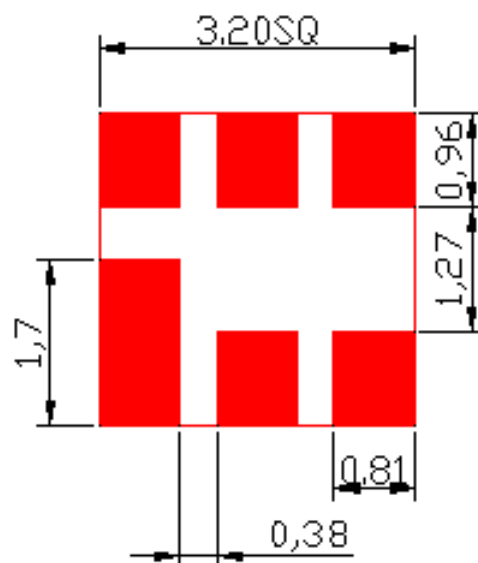
SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

E. OUTLINE DRAWING:



F. PCB FOOTPRINT:



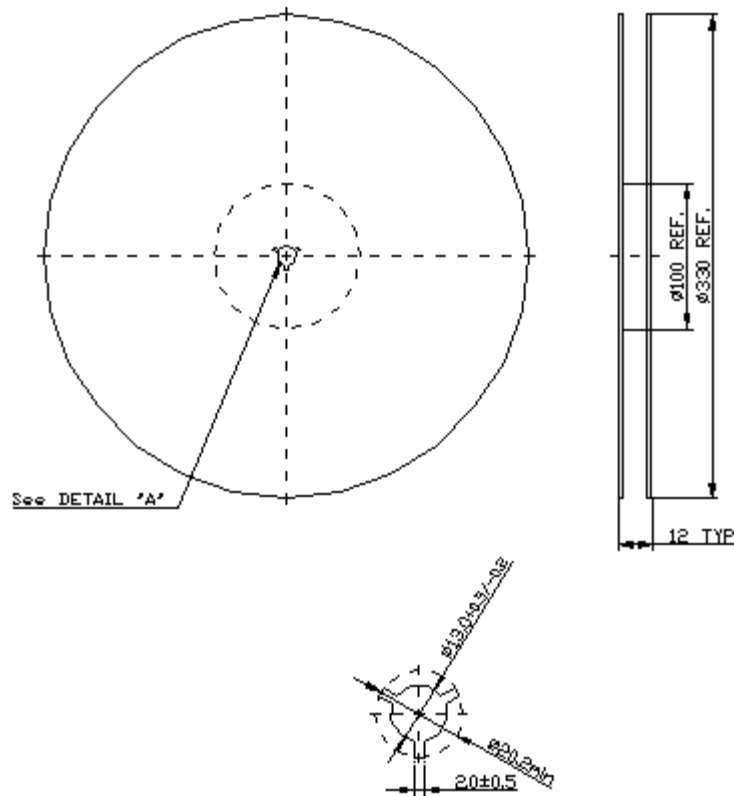
SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

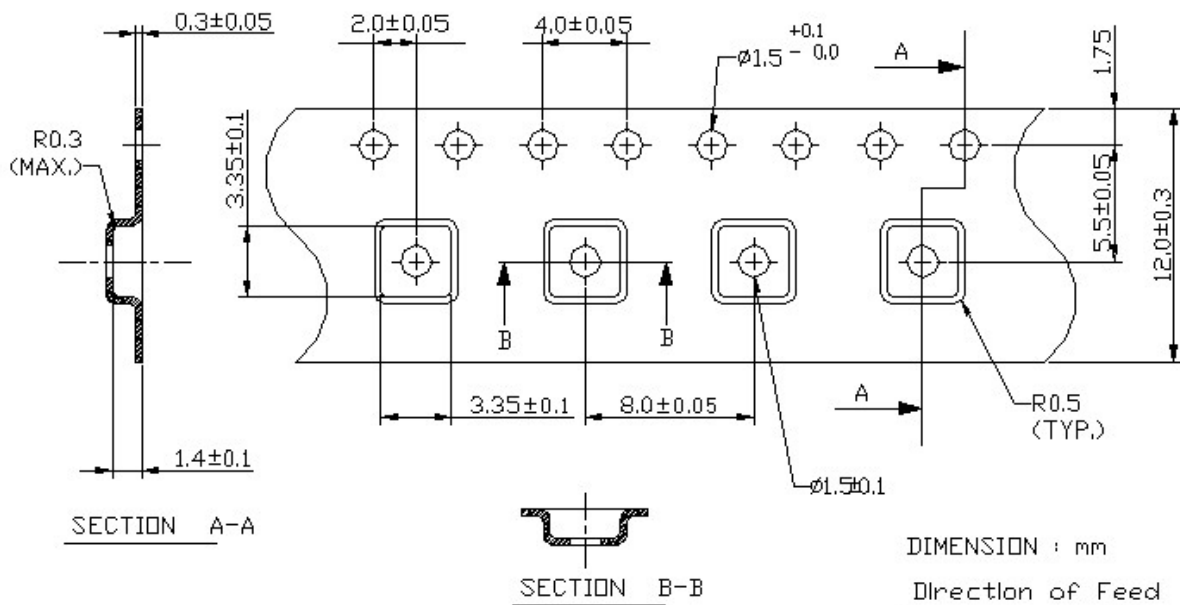
G. PACKING:

1. Reel Dimension

(Reel Count: 7" = 1000; 13" = 3000 or per the request of customer order)



2. Tape Dimension



SAW Filter: 2157.50MHz
Part No: MA05752

Model: TA0229A
Rev No: 2

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.

