

SAW Filter 2157.50MHz

Model: TA0229B

Part No: MP07986 (AEC-Q200 Compliant)

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

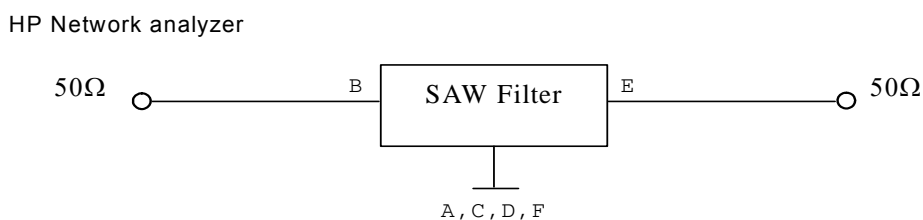
1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +125°C

B. ELECTRICAL CHARACTERISTICS:

Characteristics	Min.	Typ.	Max	Note
Center frequency Fc MHz	-	2157.5	-	-
Insertion loss 2140 ~ 2175MHz dB	-	3.1	4.0	-
Amplitude ripple 2140 ~ 2175MHz dB	-	1.1	2.0	-
V.S.W.R 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

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

C MEASUREMENT CIRCUIT:

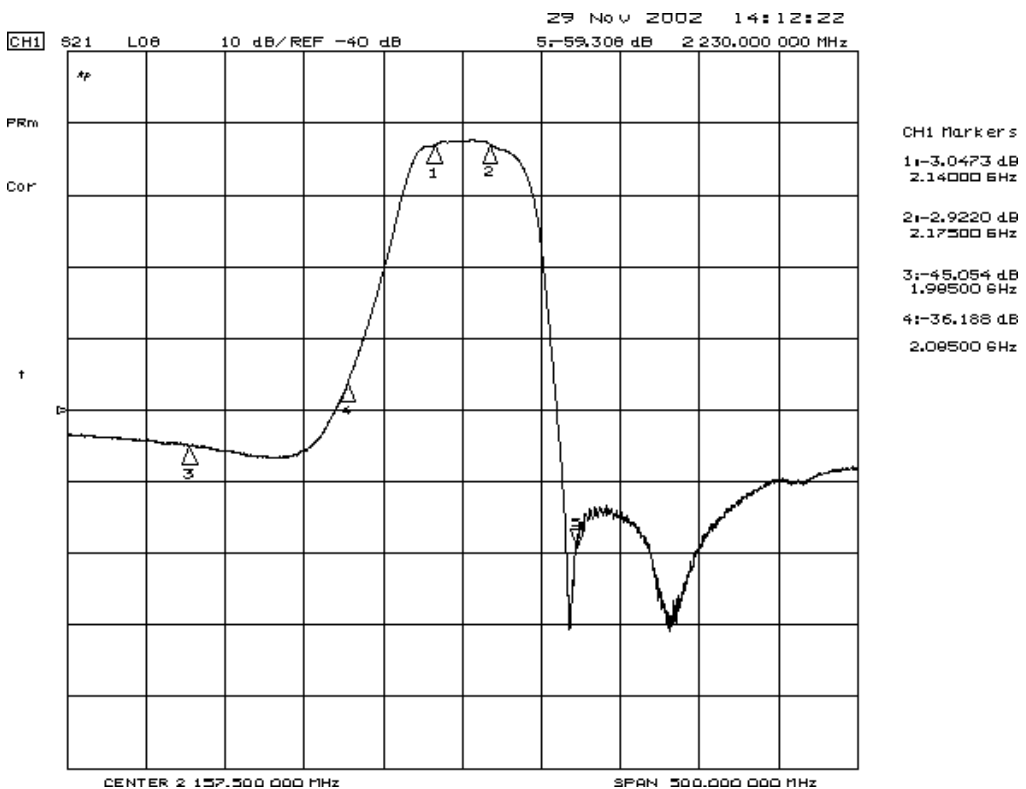
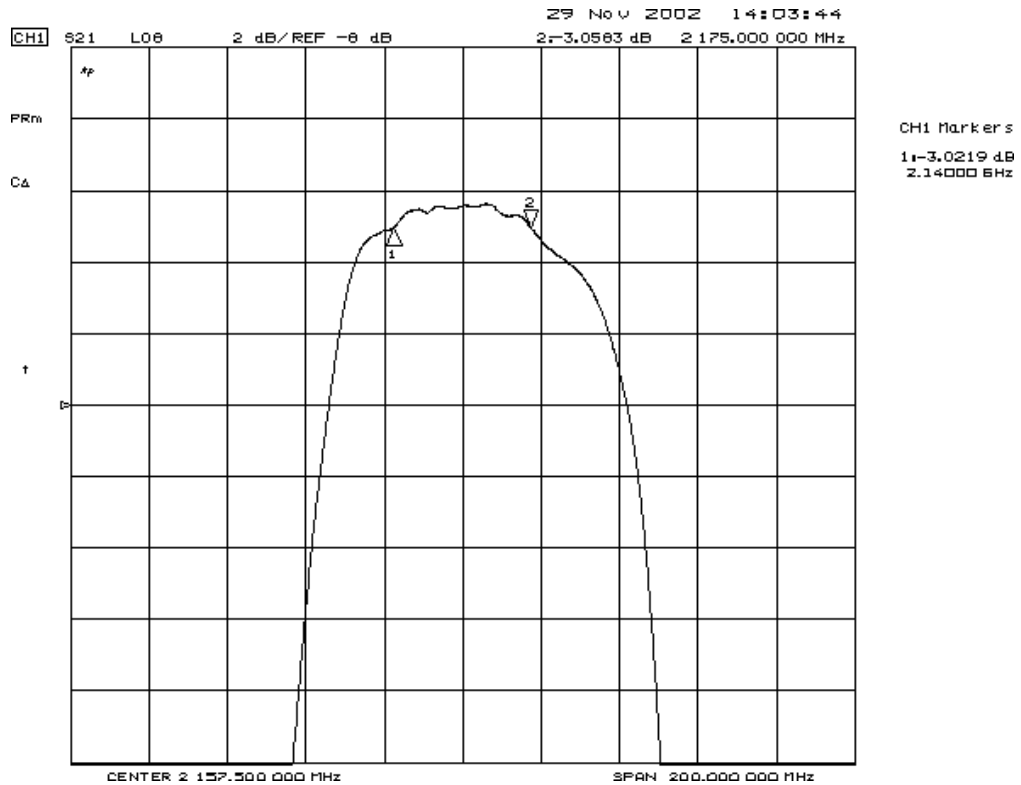


SAW Filter 2157.50MHz
Part No: MP07986 (AEC-Q200 Compliant)

Model: TA0229B
Rev No: 1

D. FREQUENCY CHARACTERISTICS:

Transfer Function

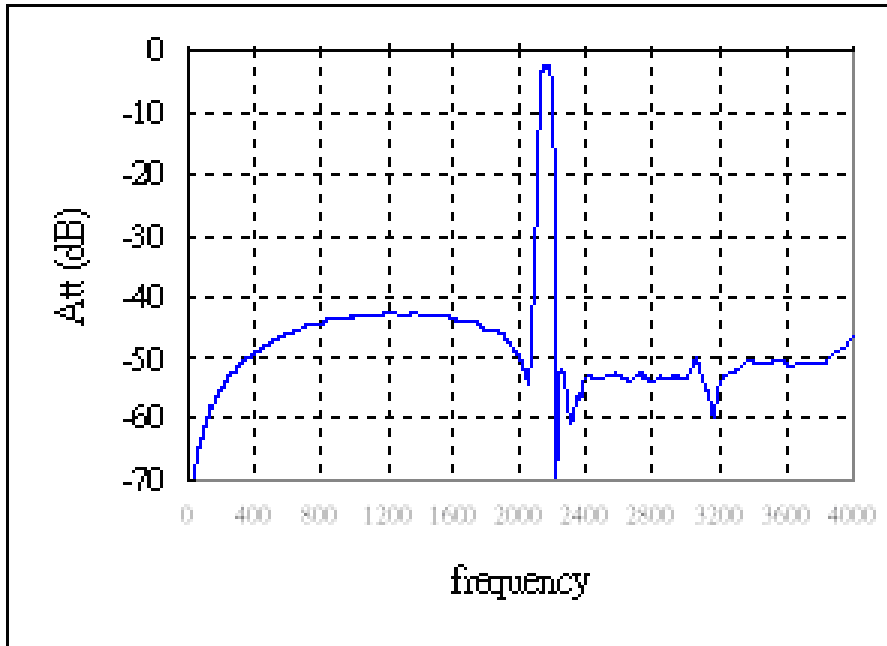


SAW Filter 2157.50MHz

Model: TA0229B

Part No: MP07986 (AEC-Q200 Compliant)

Rev No: 1

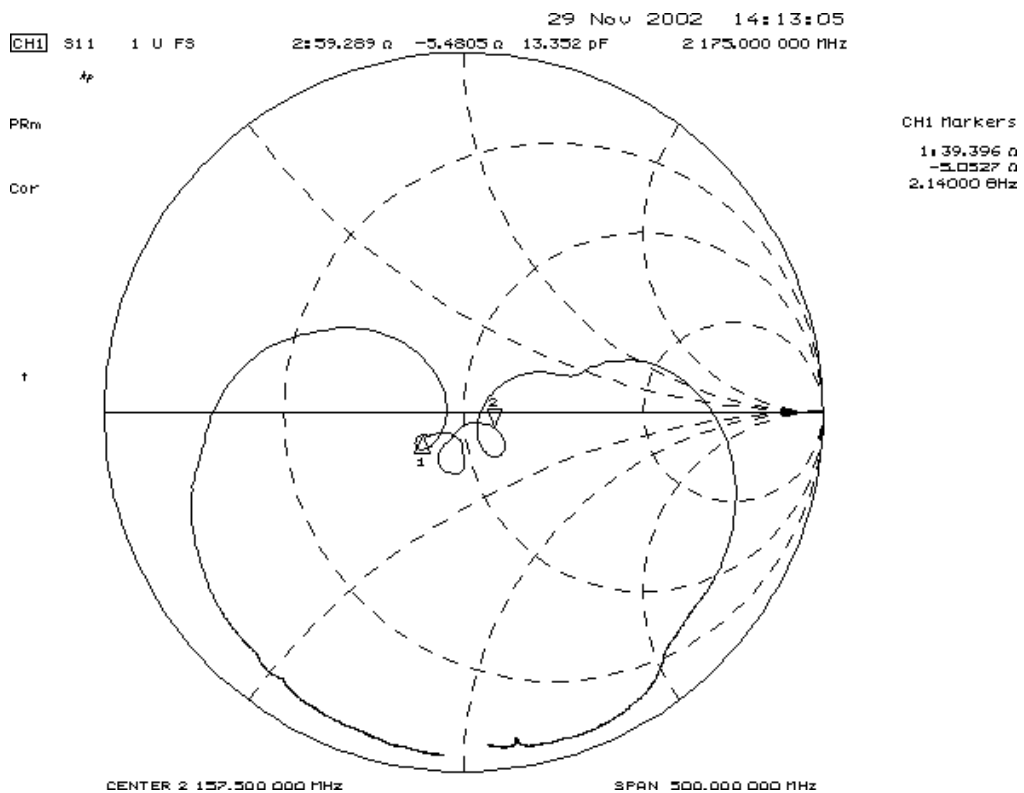
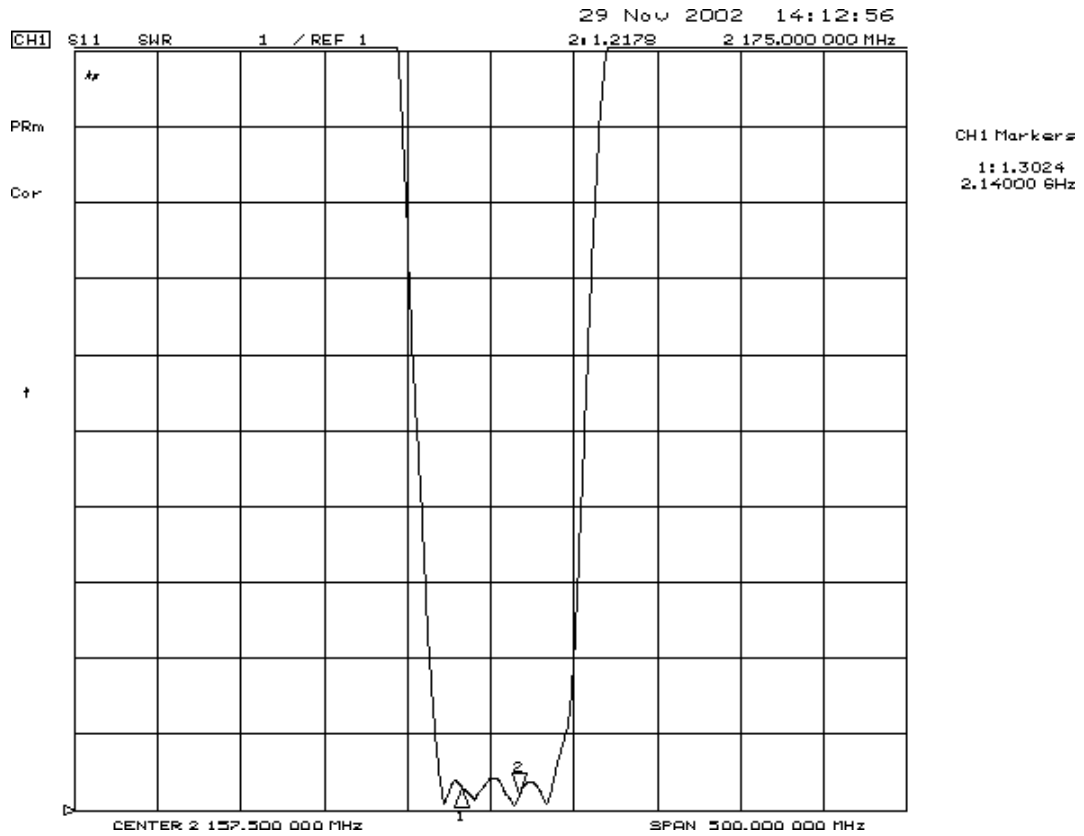


SAW Filter 2157.50MHz
Part No: MP07986 (AEC-Q200 Compliant)

Model: TA0229B
Rev No: 1

Reflections Functions

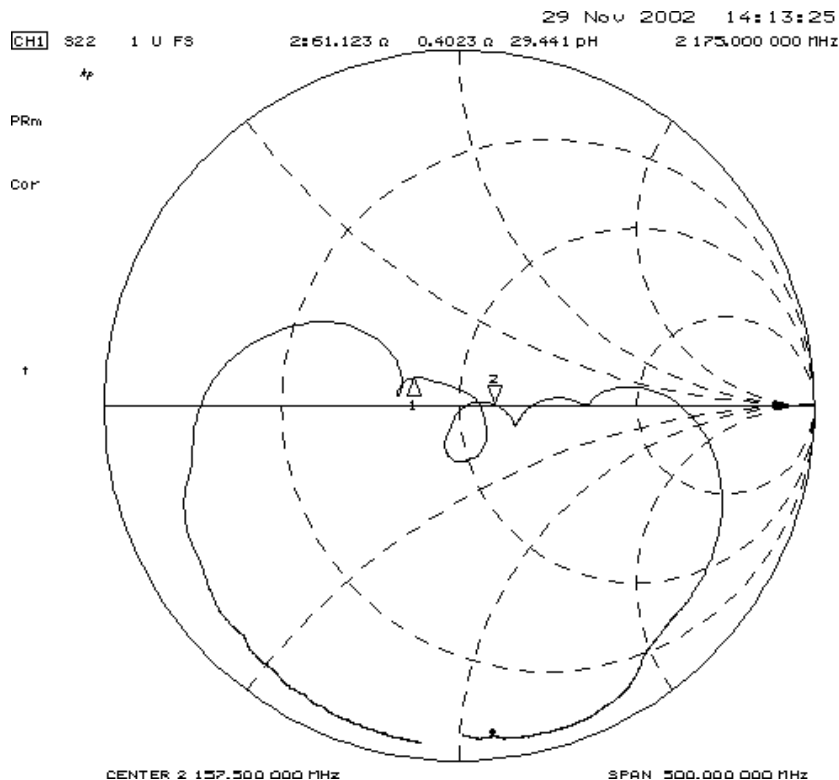
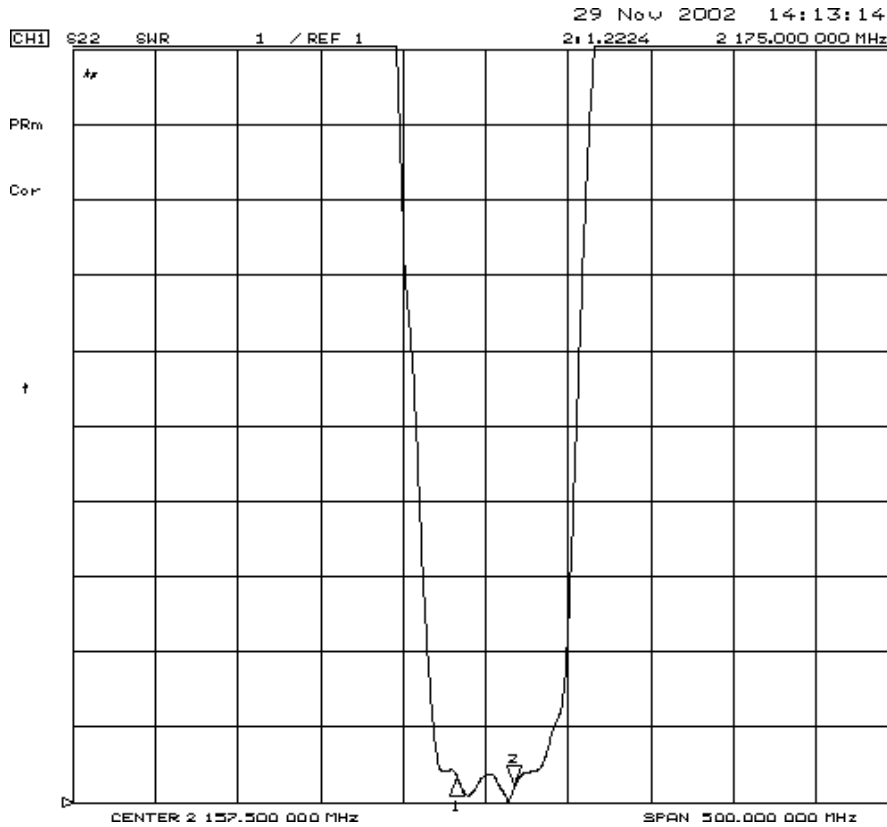
S11



SAW Filter 2157.50MHz
Part No: MP07986 (AEC-Q200 Compliant)

Model: TA0229B
Rev No: 1

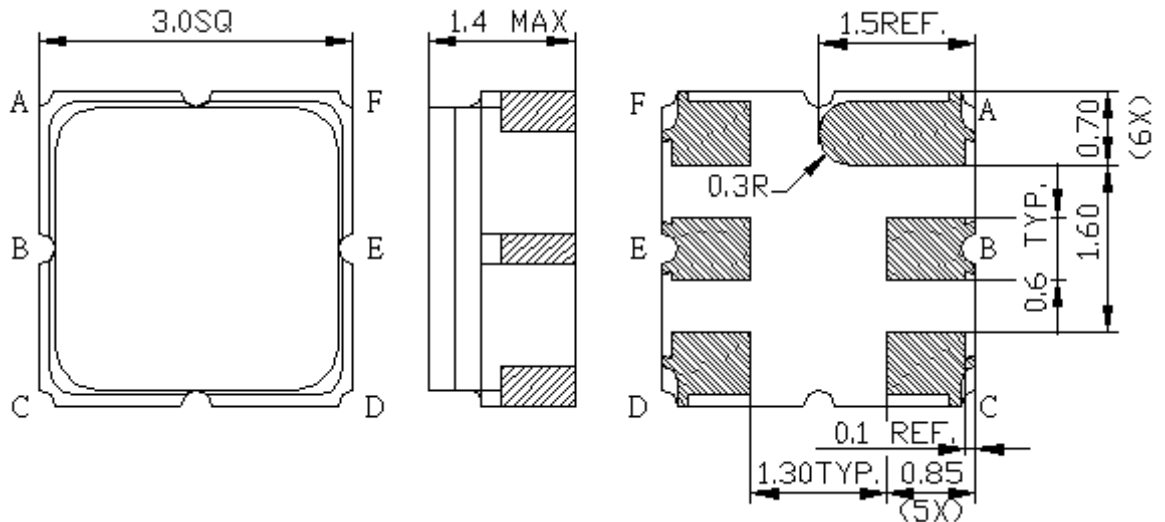
S22



SAW Filter 2157.50MHz
Part No: MP07986 (AEC-Q200 Compliant)

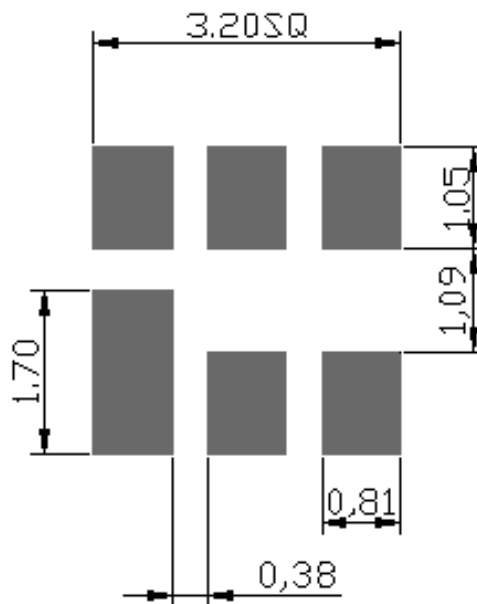
Model: TA0229B
Rev No: 1

E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:

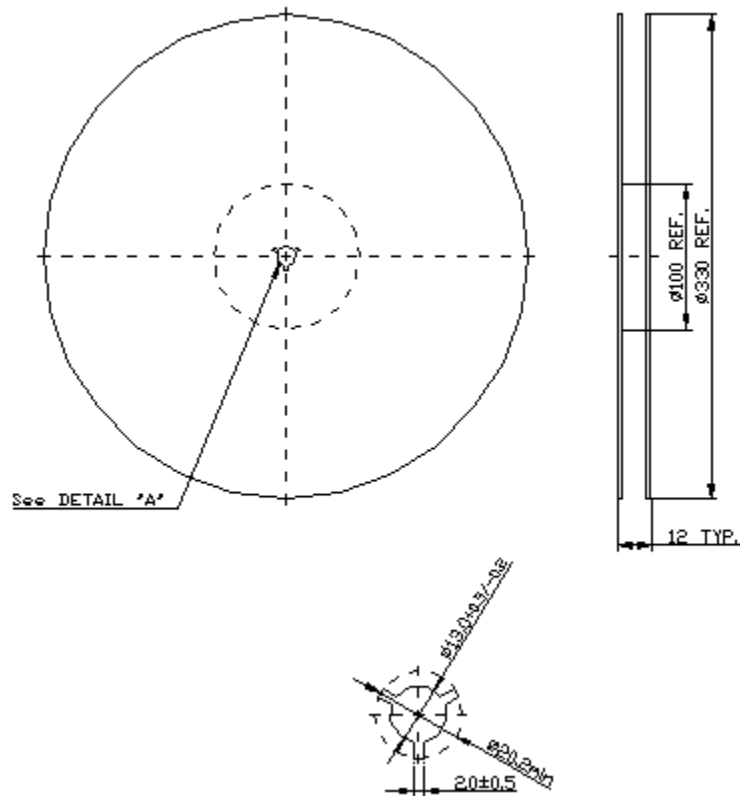


SAW Filter 2157.50MHz
Part No: MP07986 (AEC-Q200 Compliant)

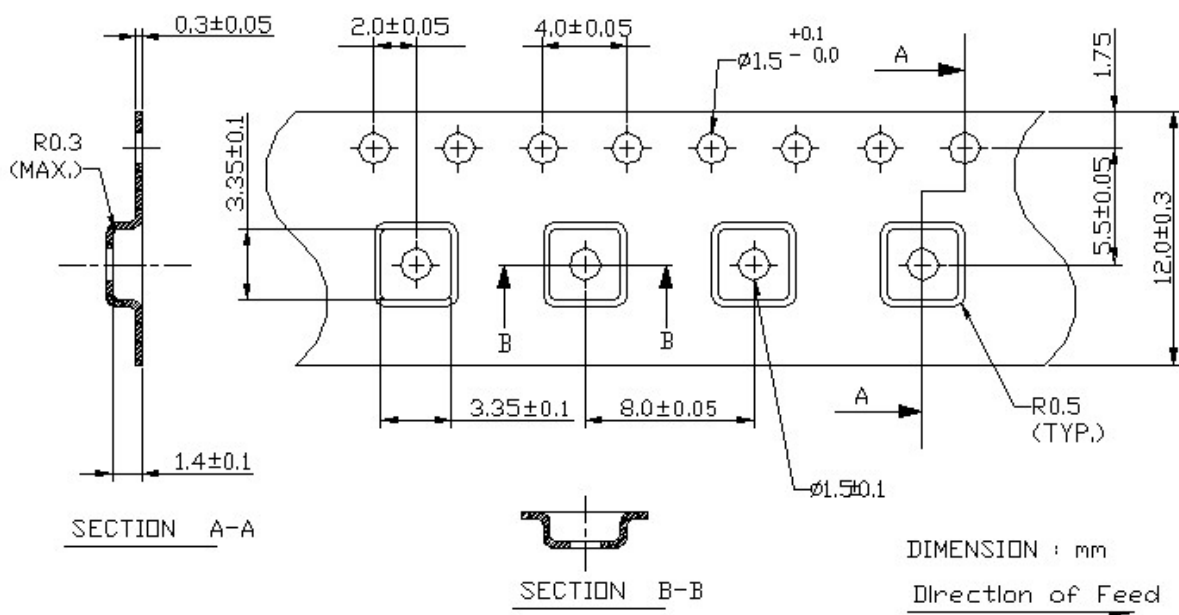
Model: TA0229B
Rev No: 1

G. PACKING:

1. Reel Dimension



2. Tape Dimension



SAW Filter 2157.50MHz
Part No: MP07986 (AEC-Q200 Compliant)

Model: TA0229B
Rev No: 1

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.

