

**SAW Filter: 1950.0MHz**

**Model: TA1590A**

**Part No: MP05543**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

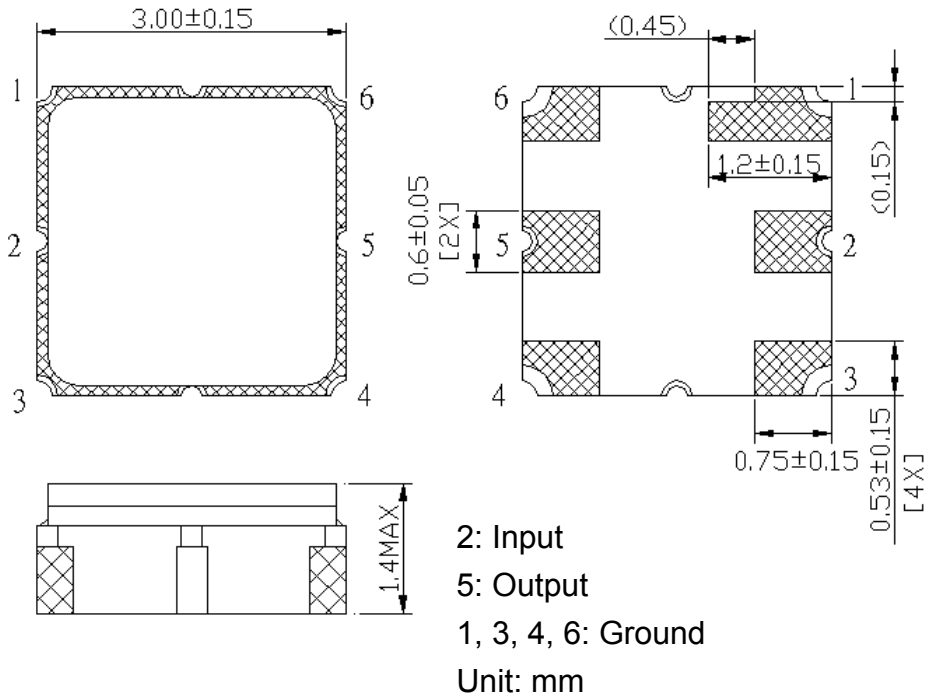
1. Terminating source impedance (single ended):  $Z_S = 50\Omega$
2. Terminating load impedance (single ended):  $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center frequency $F_c$	MHz	-	1950	-	-
Insertion Loss (1940 ~ 1960MHz) IL	dB	-	2.1	3.5	-
Amplitude Ripple (1940 ~ 1960MHz)	dB	-	0.6	1.5	-
VSWR (1940 ~ 1960MHz)		-	1.7	2.2	-
Attenuation (reference level from 0dB)					
1780 ~ 1880MHz	dB	35	38	-	-
2025 ~ 2140MHz	dB	40	43	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

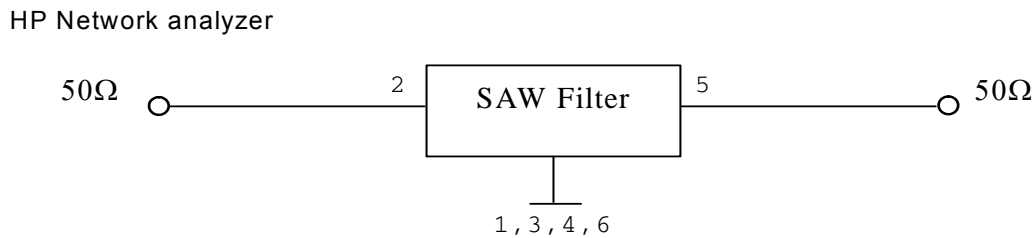
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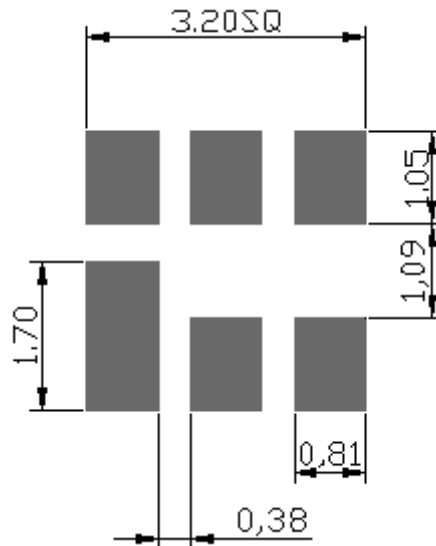
**C. OUTLINE DRAWING:**



**D. MEASUREMENT CIRCUIT:**



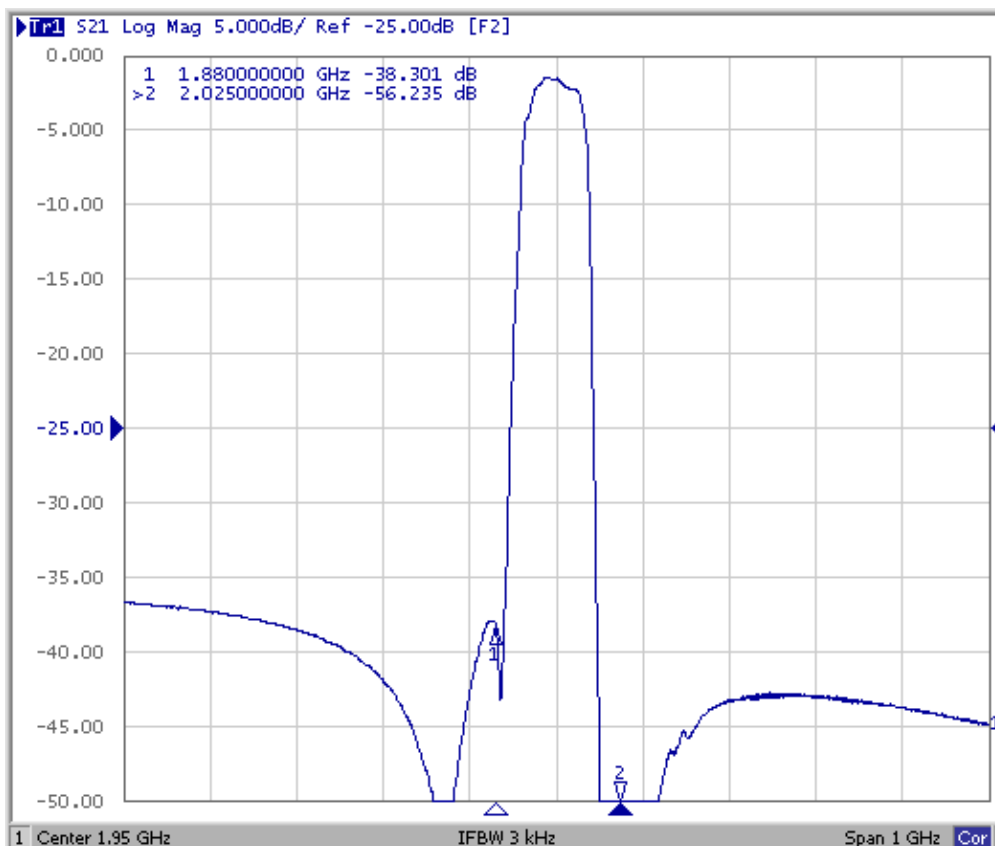
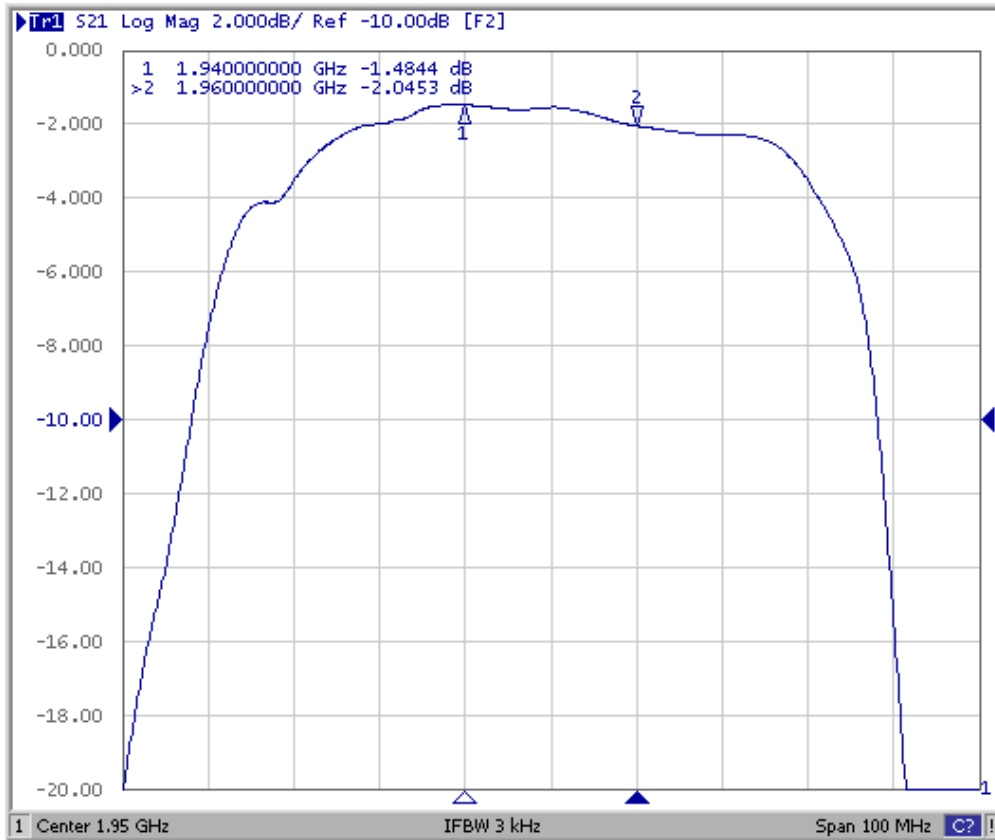
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

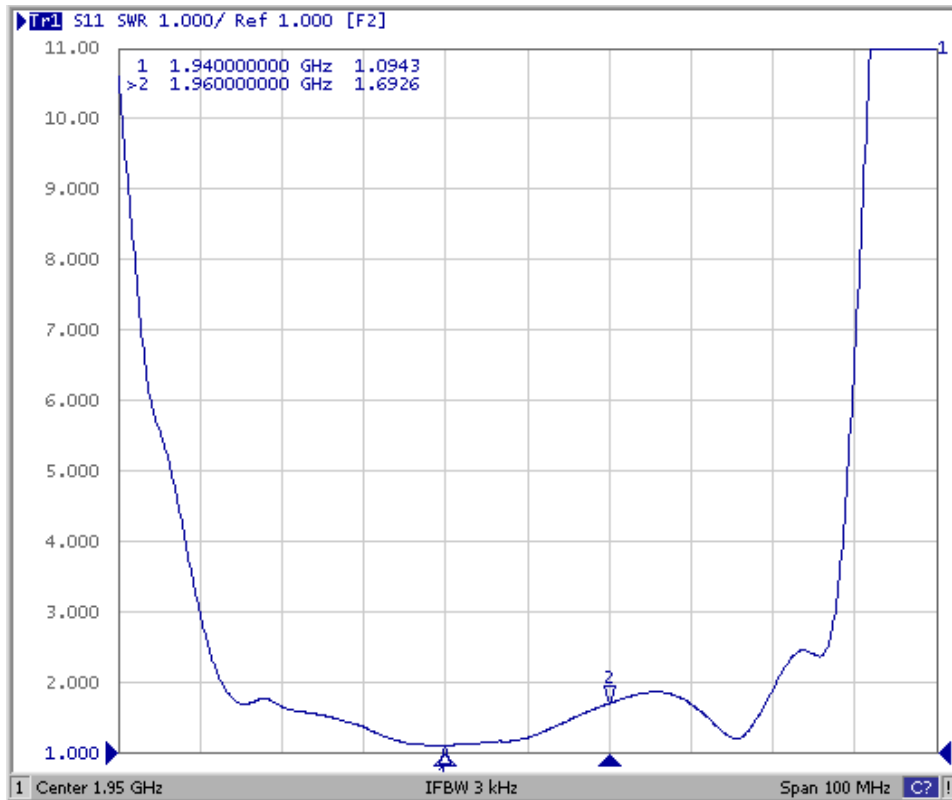


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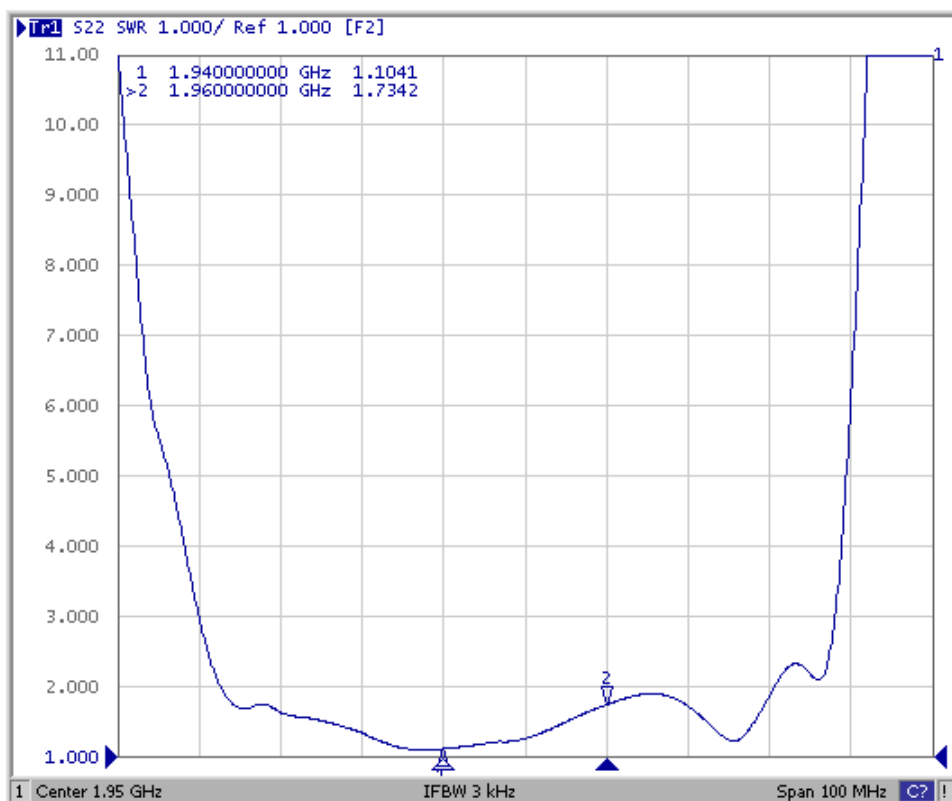
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Reflection Functions

S11



S22



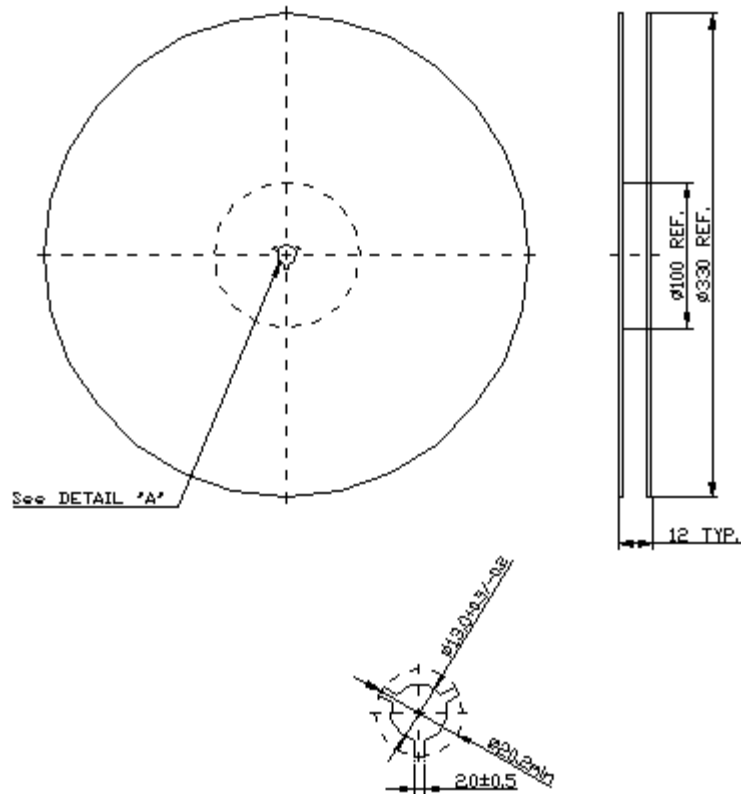
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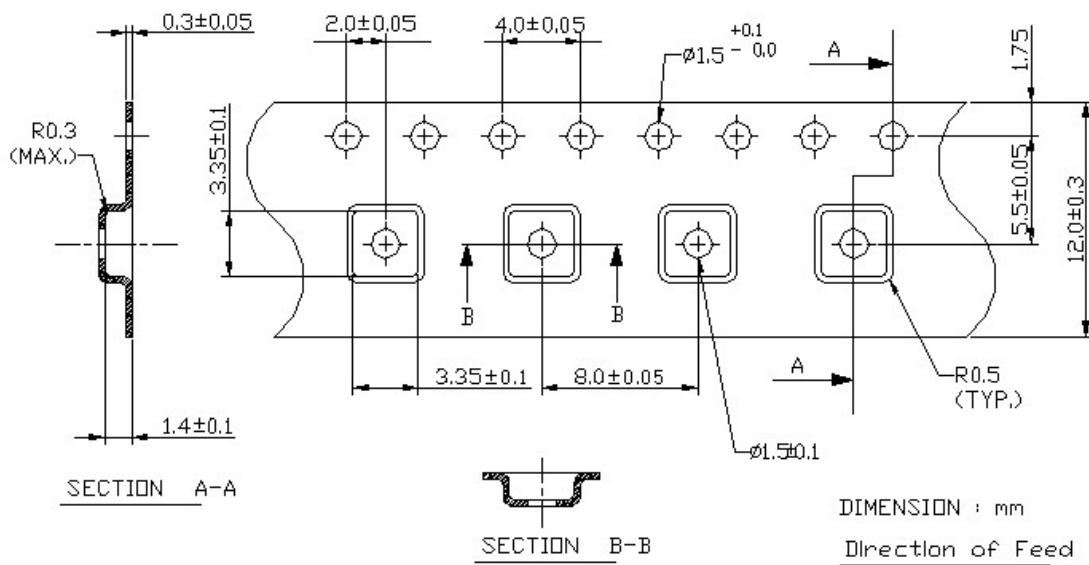
**G. PACKING:**

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



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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. 10sec).
4. Time: 2 times.

