

**SAW Filter 121.50MHz**

**Model: TA1952A**

**Part No: MP07593**

**Rev No: 1**

**A. MAXIMUM RATING:**

**Electrostatic Sensitive Device (ESD)**

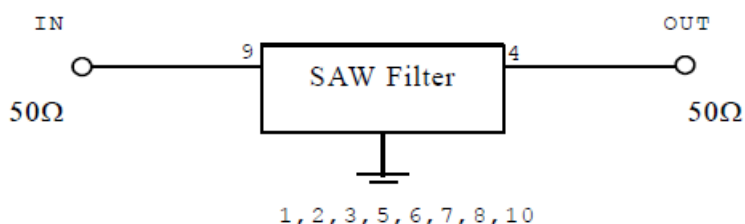
1. Input Power Level: 15dBm
2. DC Voltage: 10V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -45°C to +90°C

**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	121.5	-
Insertion Loss (121.475 ~ 121.525MHz) IL	dB	-	1.4	2.5
Bandwidth @ -1dB	MHz	0.05	1.75	-
Amplitude Ripple (121.475 ~ 121.525MHz)	dB	-	0.1	1.2
Attenuation (Reference level from 0dB)				
101.5 ~ 113.5MHz	dB	40	52	-
113.5 ~ 116.5MHz	dB	20	31	-
116.5 ~ 118.5MHz	dB	15	35	-
118.5 ~ 119.3MHz	dB	5	58	-
123.7 ~ 124.5MHz	dB	5	15	-
124.5 ~ 126.5MHz	dB	12	16	-
126.5 ~ 129.5MHz	dB	16	22	-
129.5 ~ 141.5MHz	dB	36	41	-
Temperature coefficient of frequency	ppm/k	-	-32	-

**C. MEASUREMENT CIRCUIT:**

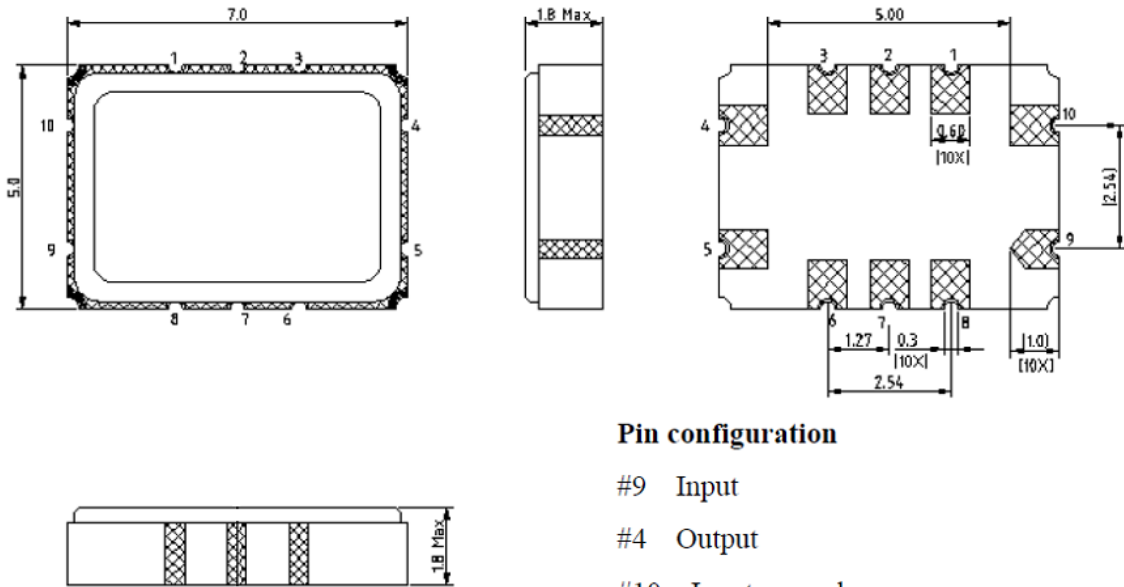
HP Network analyzer



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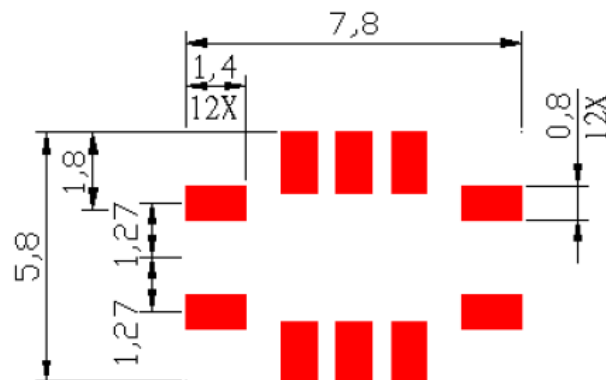
**D. OUTLINE DRAWING:**



**Pin configuration**

- #9 Input
- #4 Output
- #10 Input ground
- #5 Output ground
- #1,2,3,6,7,8 To be grounded

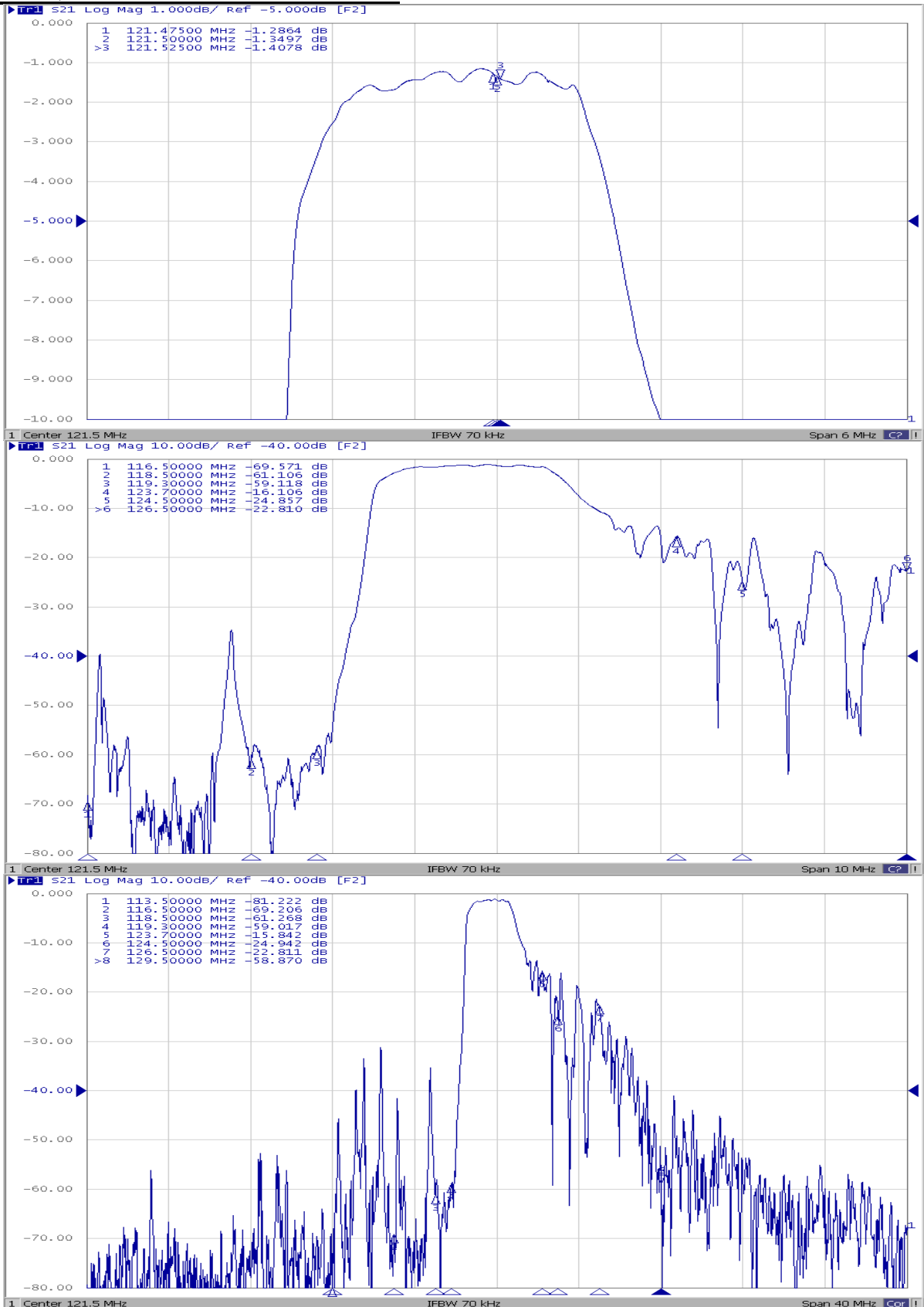
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

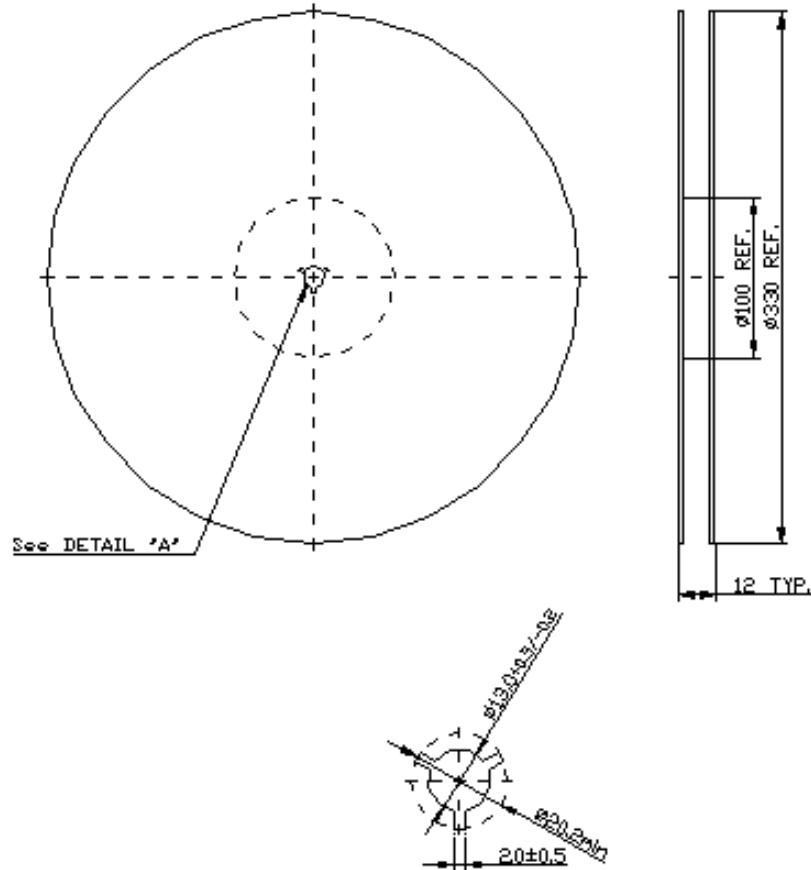


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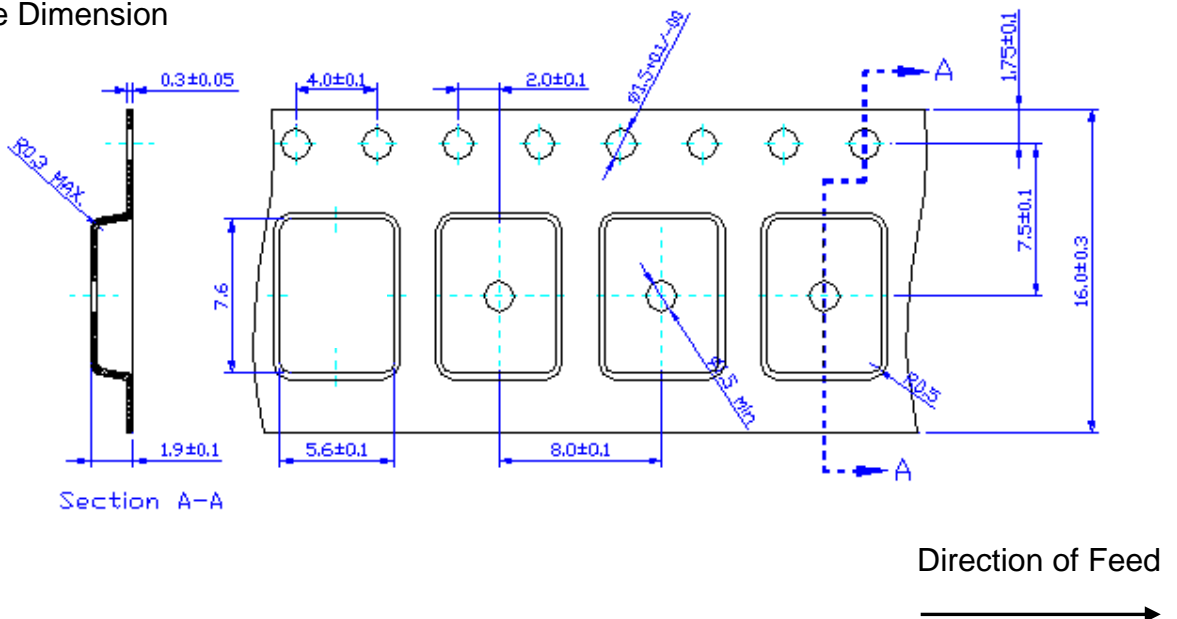
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**G. PACKING:**

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

