

**SAW Filter 110.0MHz**  
**Part No: MP10221**

**Model: TB1179A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device

1. Operating temperature range: -10°C to 70°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V
5. Moisture Sensitivity Level: Level 1 (MSL1)

**B. CHARACTERISTICS:**

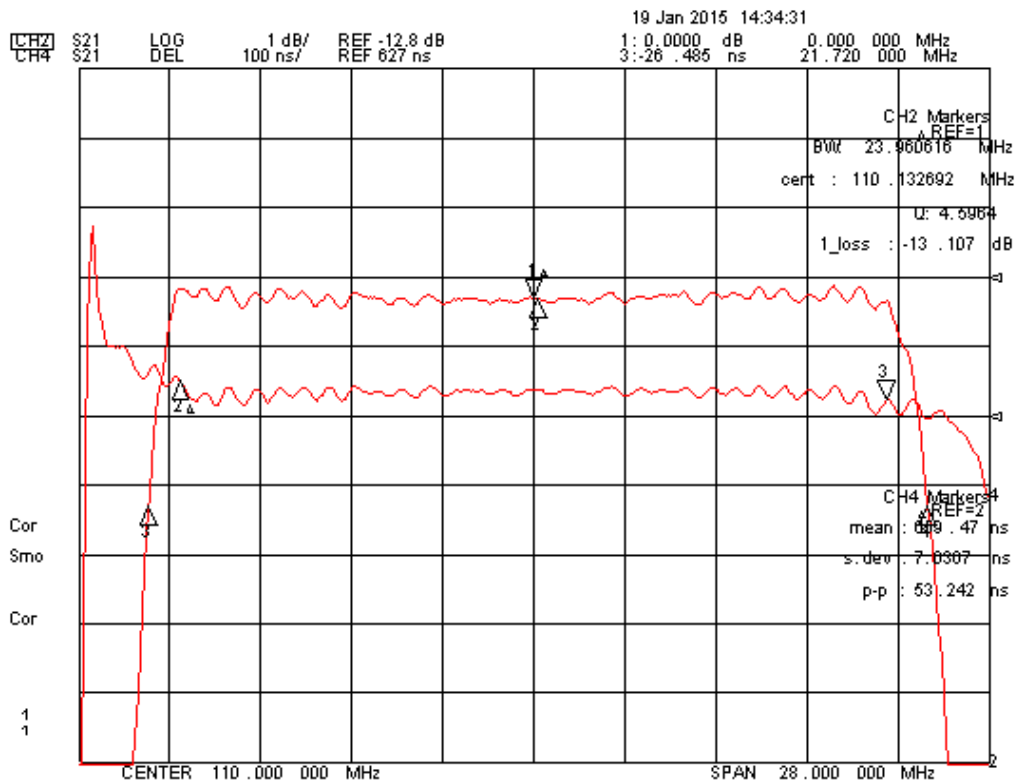
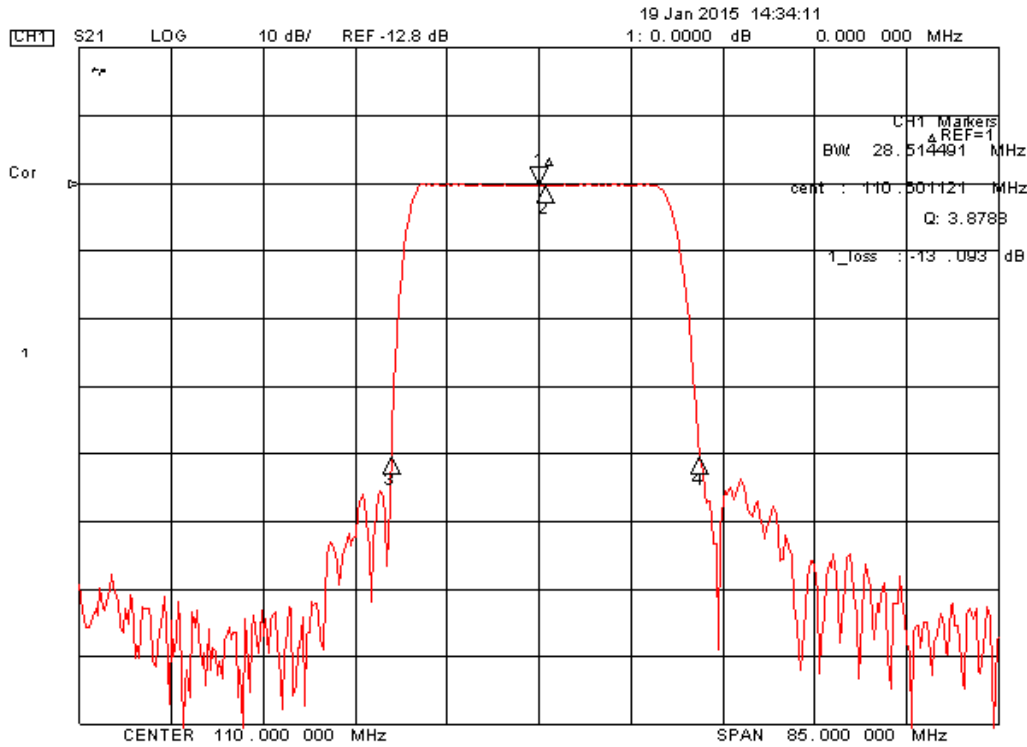
Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency, Fc	MHz	-	110	-
Insertion Loss, IL	dB	-	13.2	15.2
1dB Bandwidth	MHz	22.6	23.0	-
1dB Bandwidth	MHz	-	23.95	-
40dB Bandwidth	MHz	-	28.6	29.5
Passband Ripple Fc ±10.5MHz	dB	-	0.45	1.0
Absolute group Delay	us	-	0.66	-
Group Delay variation Fc ±10.5MHz	ns	-	55	100
Attenuation (Reference level from minimum Insertion loss)				
10MHz ~ 80MHz	dB	40	45	-
130MHz ~ 300MHz	dB	40	45	-
Temperature Coefficient	ppm/°C	-	-86	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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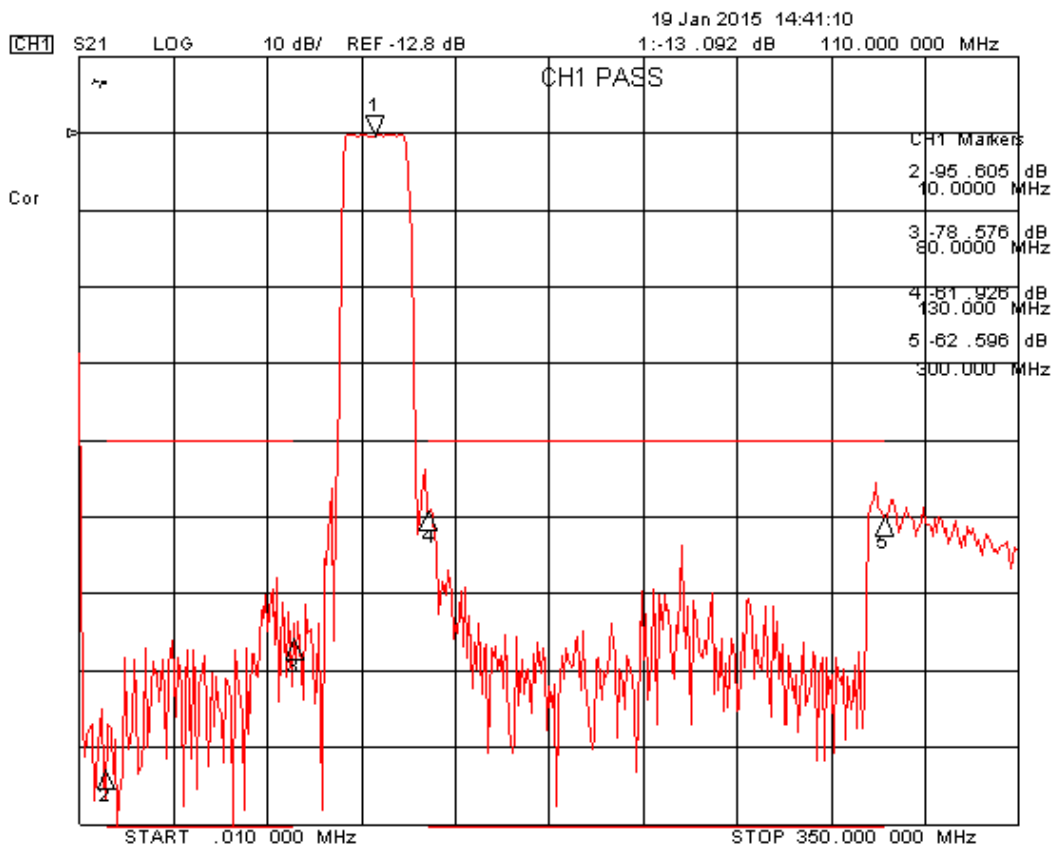
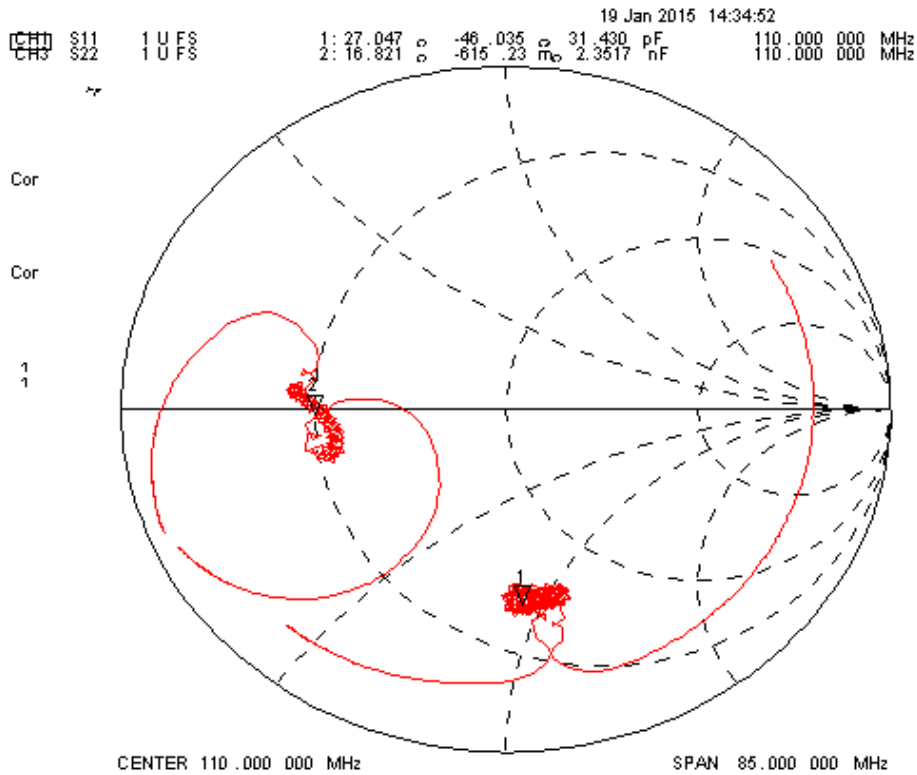
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**C. FREQUENCY CHARACTERISTICS:**



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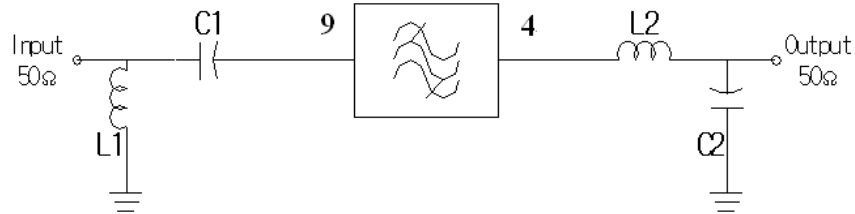
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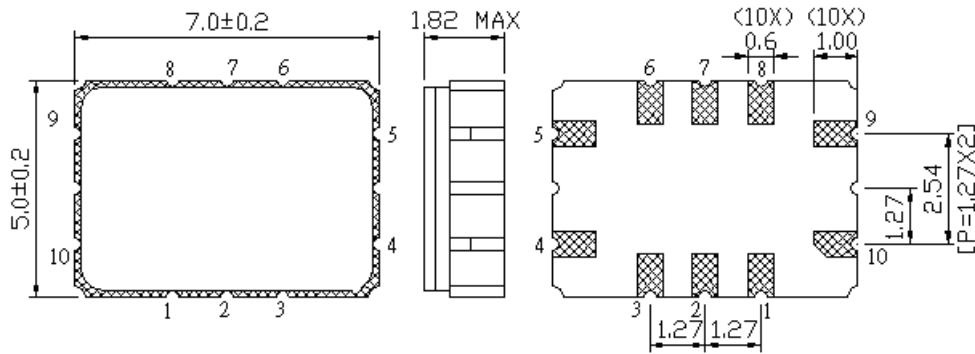
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**D. MATCHING CIRCUIT:**



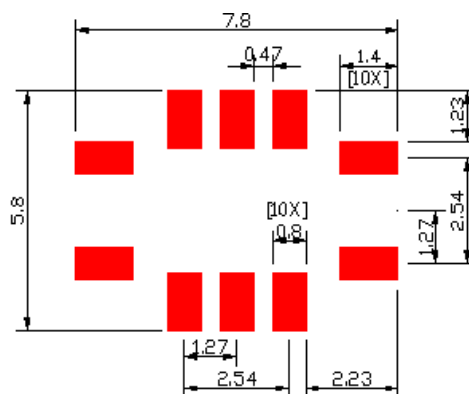
L1 = 100nH, C1 = 330pF, L2 = 47nH, C2=91pF

**E. OUTLINE DRAWING:**



- 9: RF Input
  - 10: RF Input Return
  - 4: RF Output
  - 5: RF Output Return
  - 1, 2, 3, 6, 7, 8: Ground
- Unit: mm

**F. PCB FOOTPRINT:**

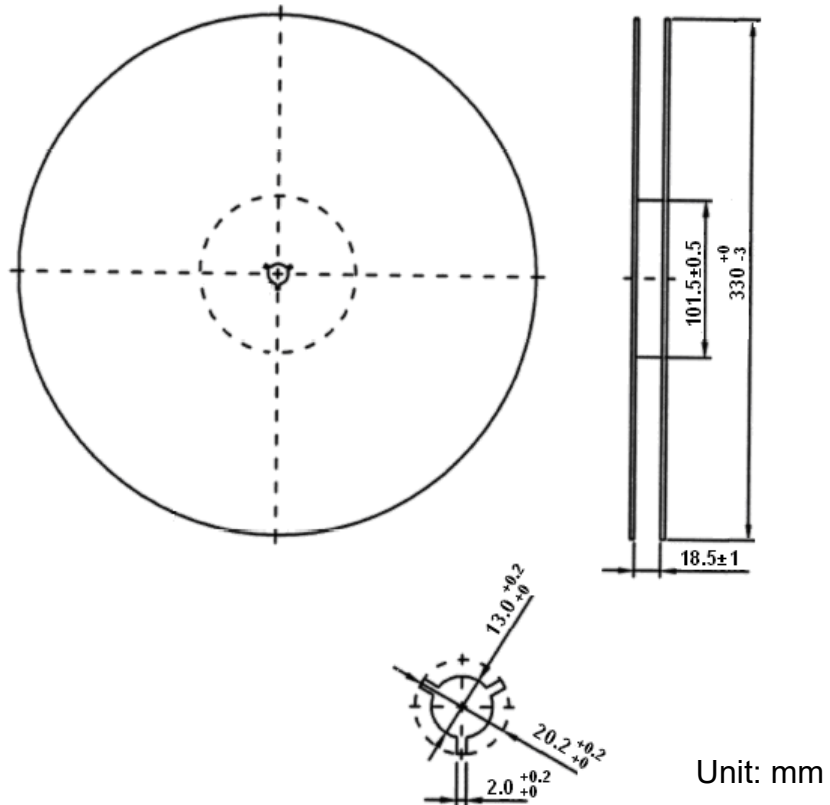


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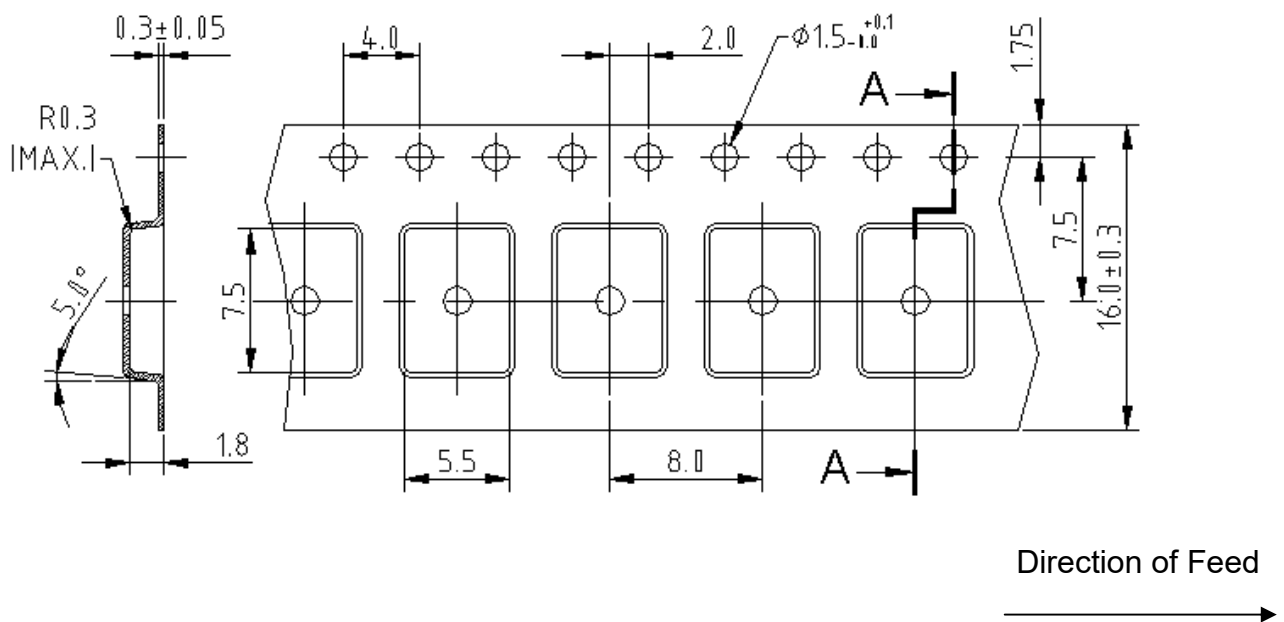
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**G. PACKING:**

1. Reel Dimensions



2. Tape Dimensions



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

