

**SAW Filter 1176.450MHz**  
**Part No: MP09929**

**Model: TA2543A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 13 dBm (2000h)
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. ESD Machine Mode: 50V
6. ESD Human Body Mode: 100V
7. Moisture Sensitive Level (MSL): Level 2a

**B. ELECTRICAL CHARACTERISTICS:**

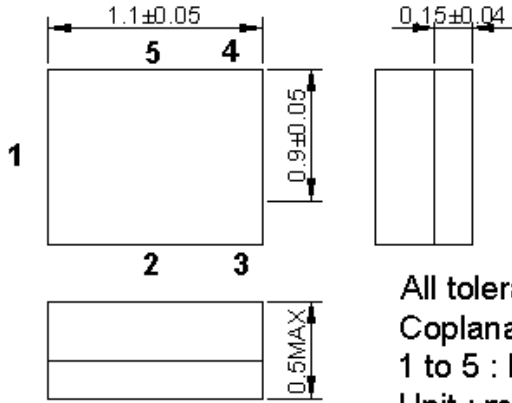
1. Temperature range for specification:  $T_{spec} = -20^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
2. Terminating source impedance:  $Z_S = 50\Omega$
3. Terminating load impedance:  $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency $F_c$	MHz	-	1176.45	-
Insertion Loss (1166.45 ~ 1186.45MHz) IL	dB	-	1.4	2
Amplitude Ripple (1166.45 ~ 1186.45MHz)	dB p-p	-	0.4	1.3
VSWR (1166.45 ~ 1186.45MHz)		-	1.6	2.1
Attenuation (refer to 0dB)				
100 ~ 1080MHz	dB	30	44	-
1080 ~ 1130MHz	dB	20	26	-
1230 ~ 2000MHz	dB	30	32	-
2000 ~ 3000MHz	dB	25	29	-
Temperature Coefficient	ppm/K	-	-36	-

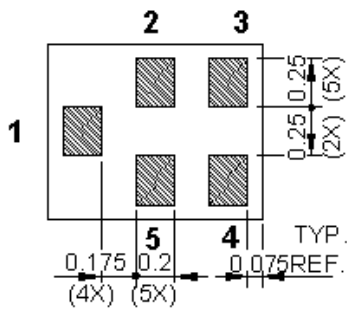
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**C. OUTLINE DRAWING:**

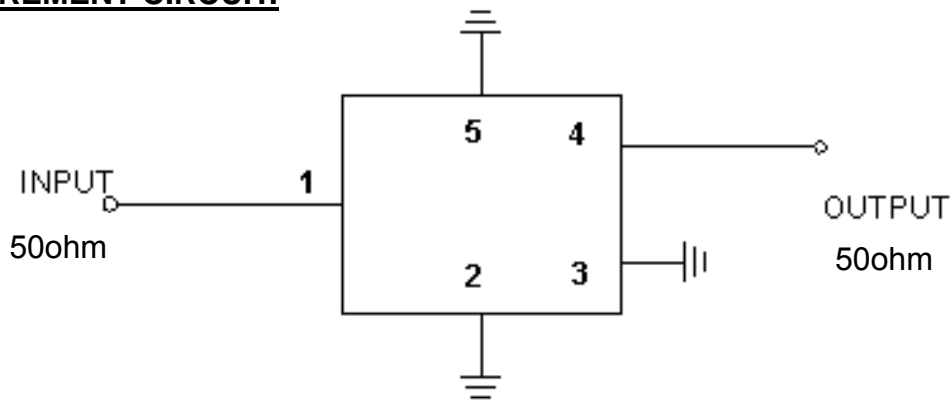


All tolerances are +/-0.05 mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm

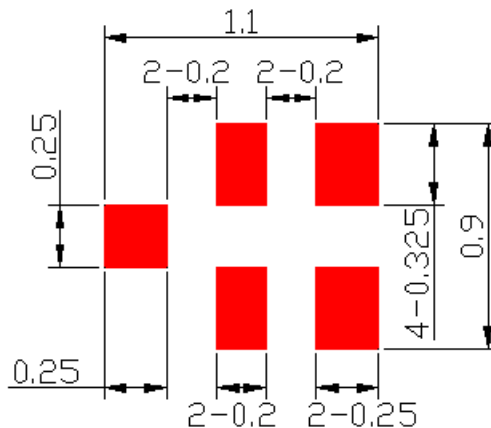


1: Input  
 4: Output  
 2, 3, 5: Ground

**D. MEASUREMENT CIRCUIT:**



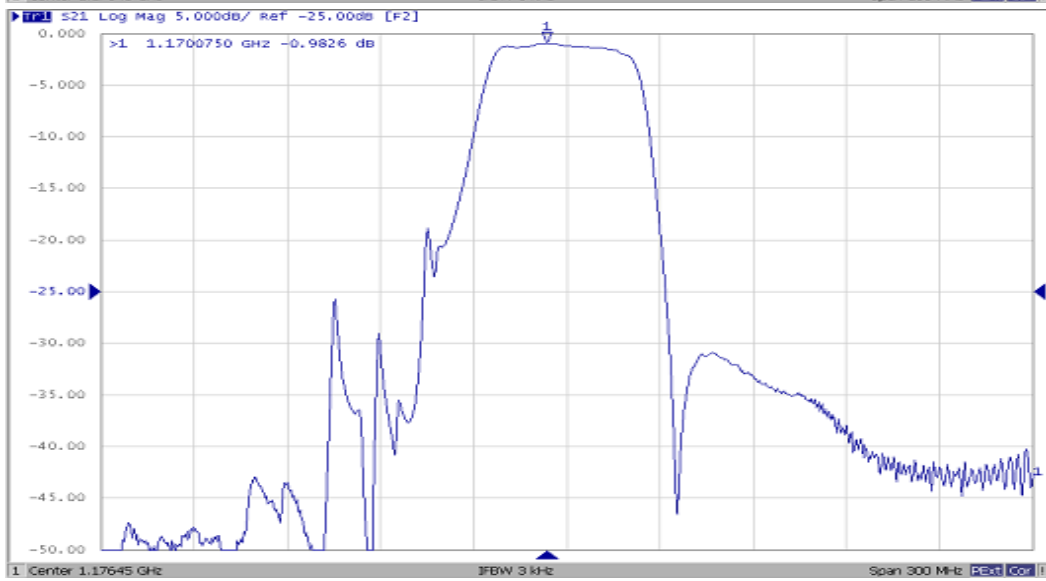
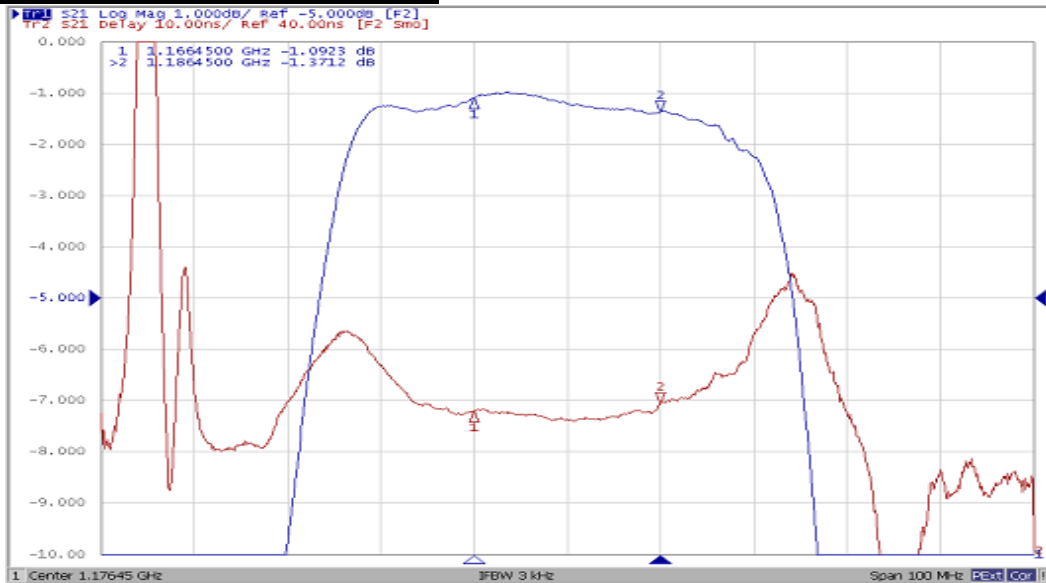
**E. PCB FOOTPRINT:**



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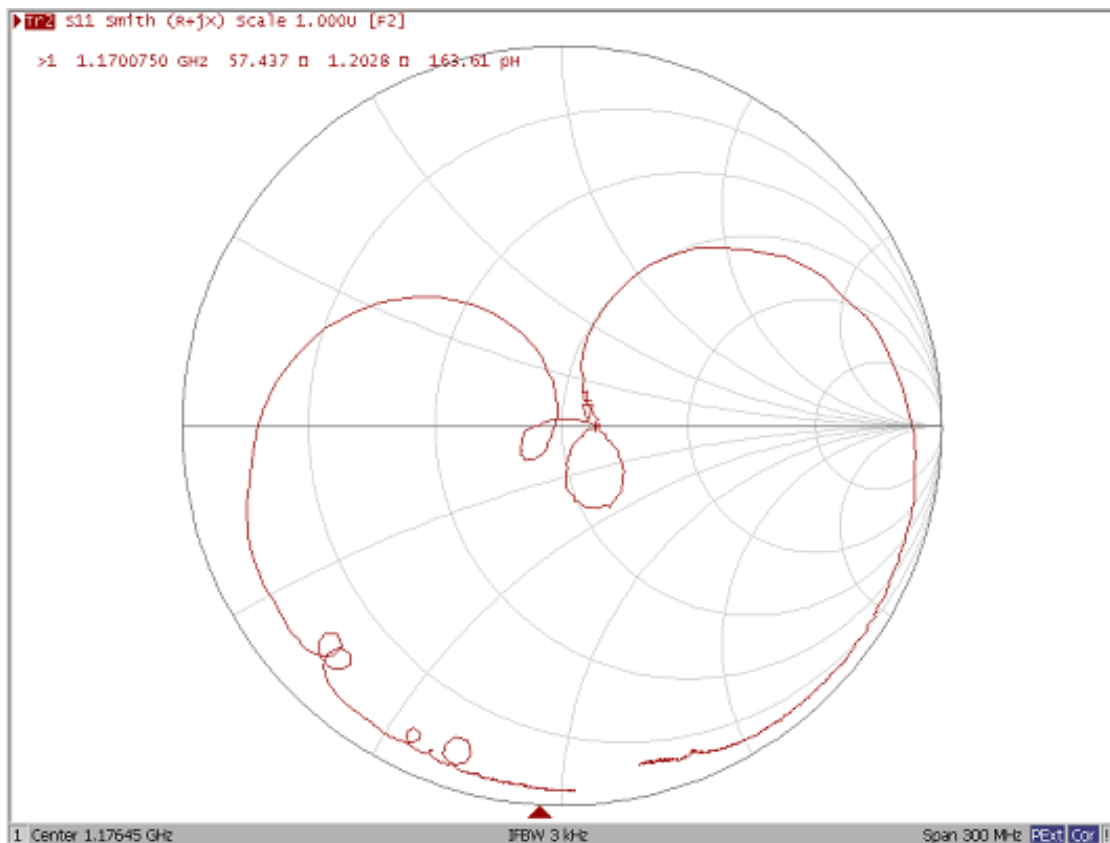
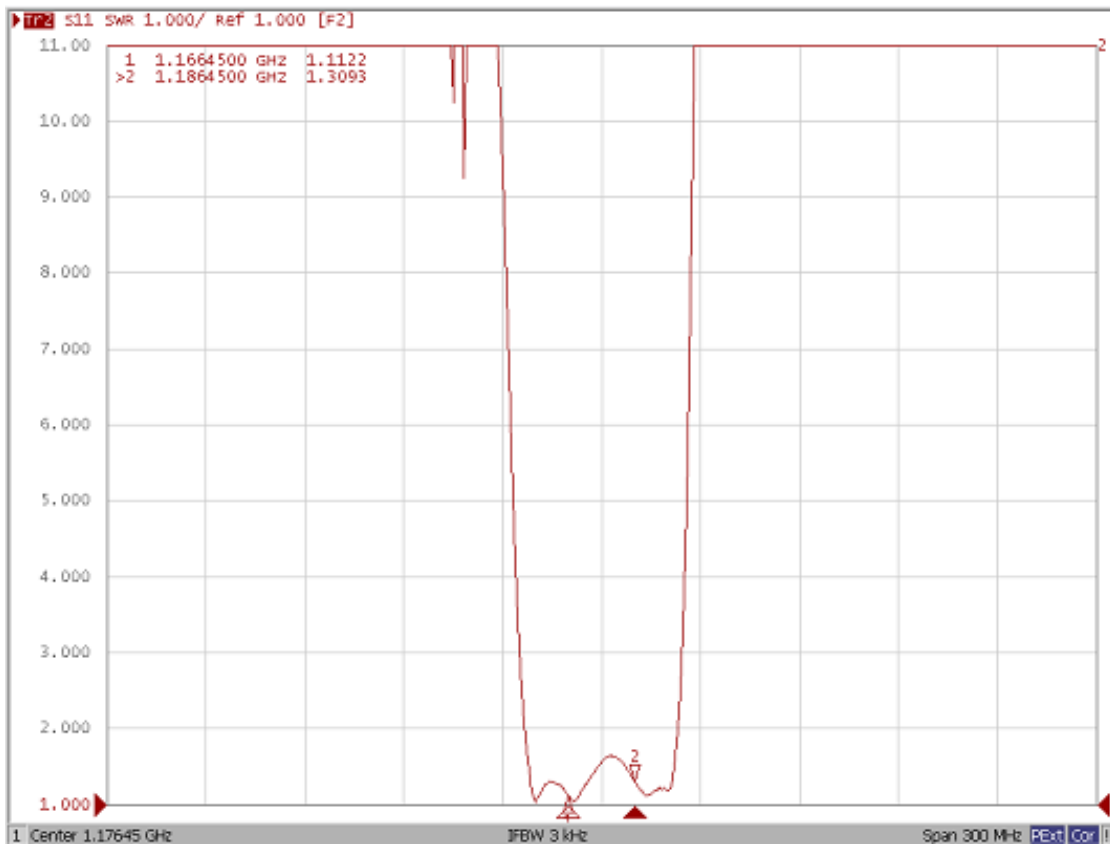
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**F. FREQUENCY CHARACTERISTICS:**



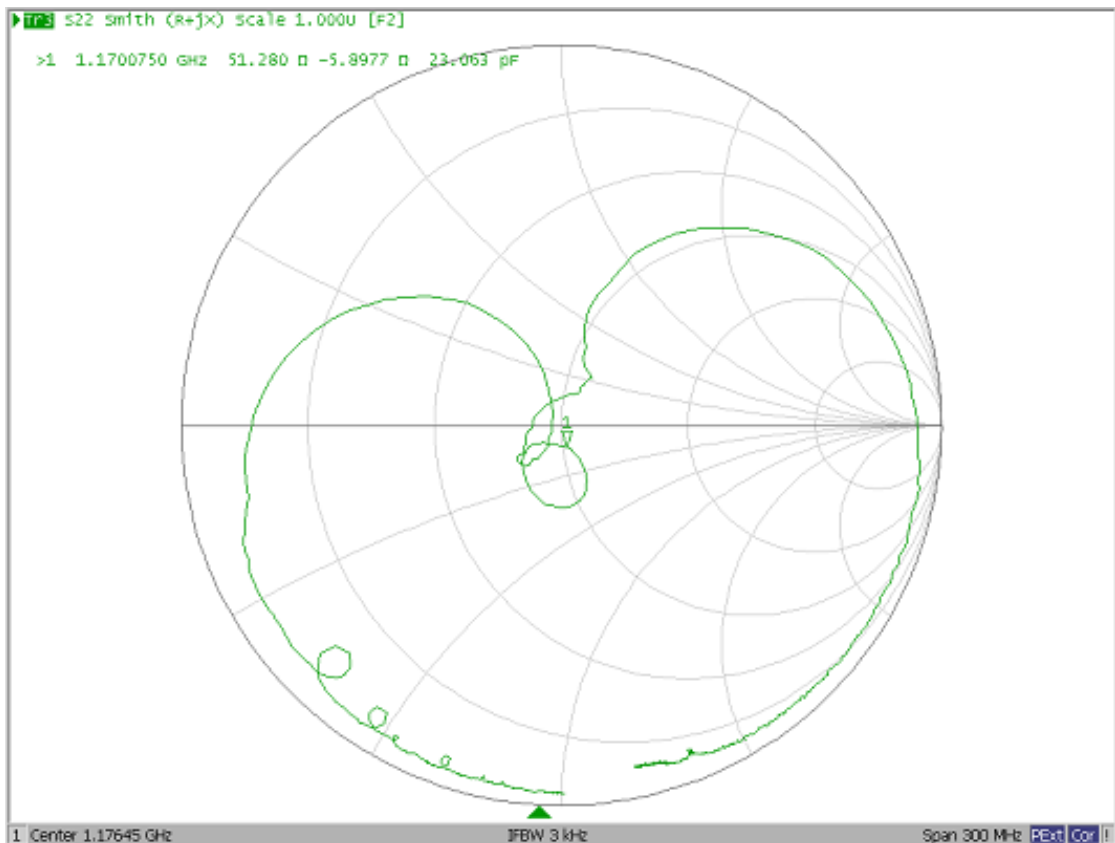
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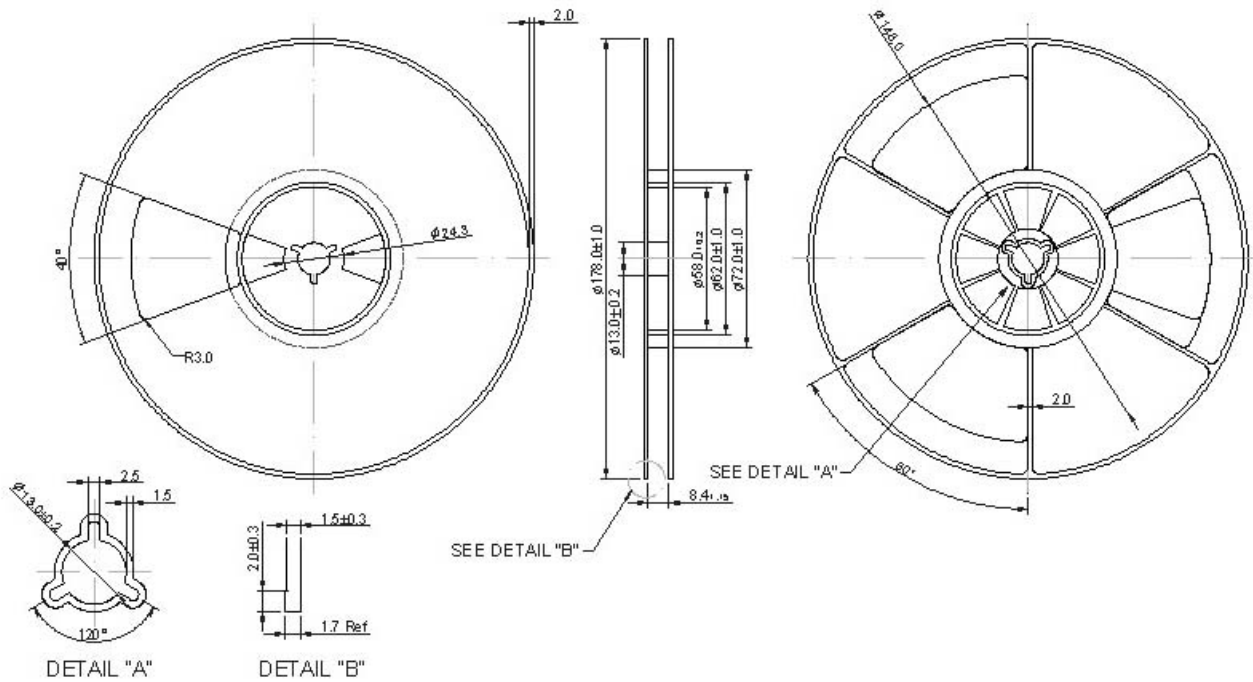


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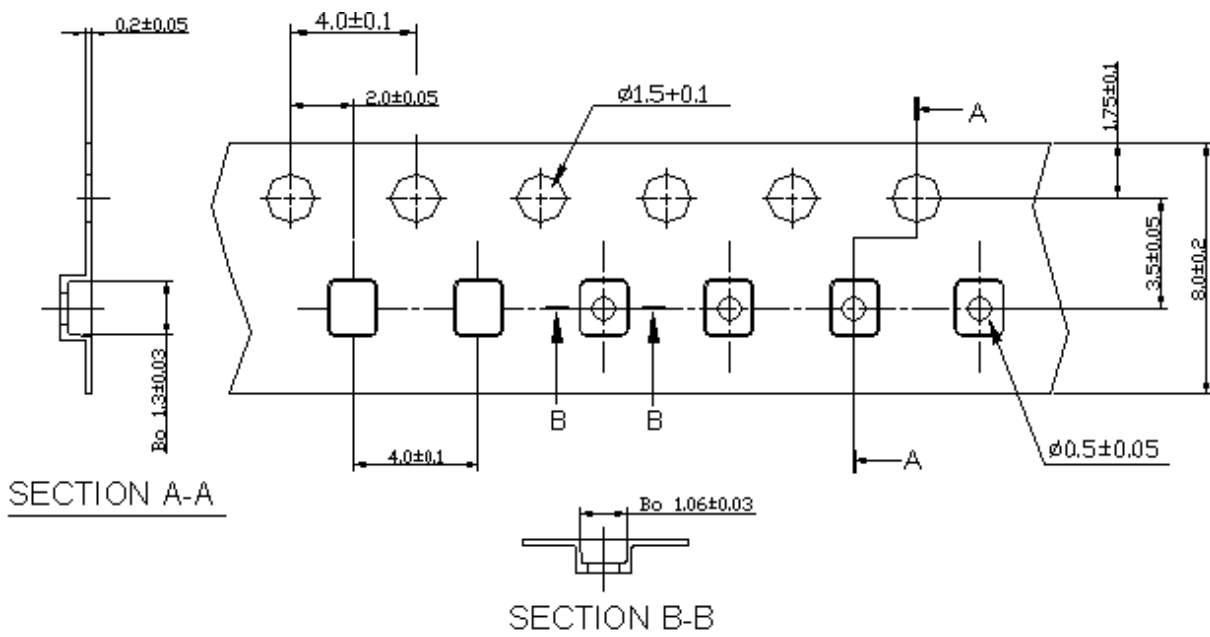
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**G. PACKING:**

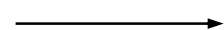
**1. Reel Dimension**



**2. Tape Dimension**



Direction of Feed



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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.

