

**SAW Filter 1583.0MHz**  
**Part No: MP08179**

**Model: TA1573A**  
**Rev No: 2**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +95°C
5. Moisture Sensitivity Level: Level 3 (MSL3)

**B. ELECTRICAL CHARACTERISTICS:**

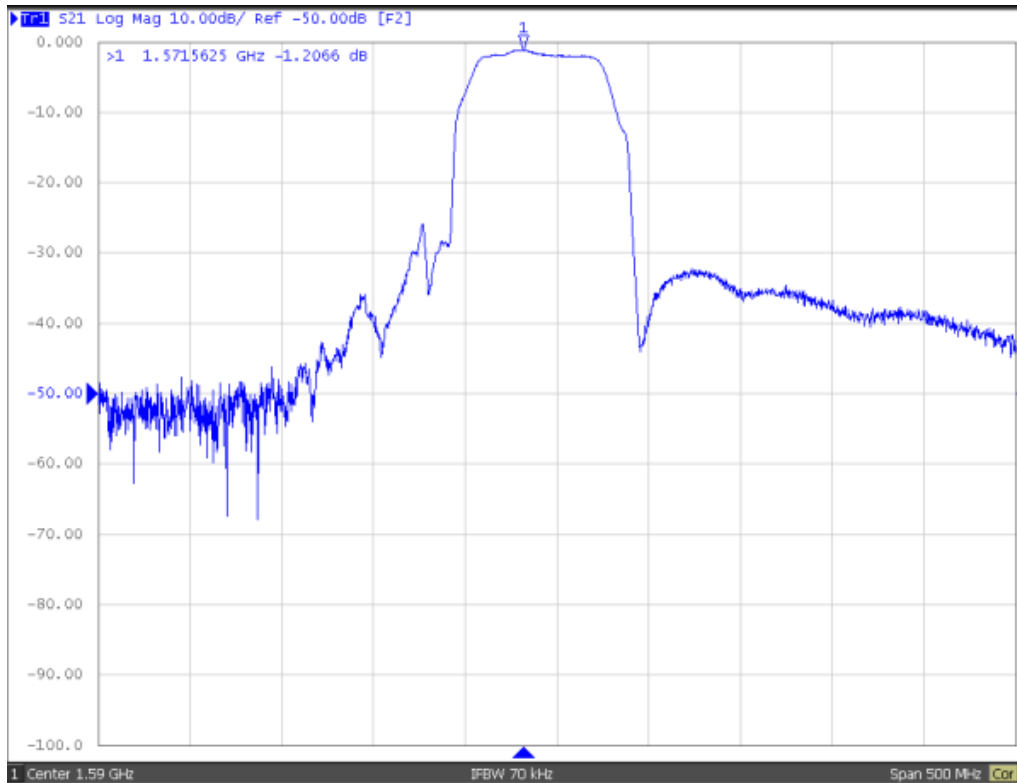
Item	Unit	Min	Typ.	Max
Center Frequency Fc	MHz	-	1583	-
Insertion Loss (1559.1 ~ 1563.1MHz) IL	dB		1.8	2.5
Insertion Loss (1573.42 ~ 1577.42MHz) IL	dB		1.4	1.8
Insertion Loss (1597.55 ~ 1605.89 MHz) IL	dB		1.7	2.5
VSWR (1559.1 ~ 1563.1MHz)			1.4	2.0
VSWR (1573.42~1577.42MHz)			1.6	2.2
VSWR (1597.55~1605.89MHz)			1.6	2.2
Amplitude ripple				
1559.1 ~ 1563.1MHz)	dB		0.5	0.8
1573.42 ~ 1577.42MHz)	dB		0.2	0.5
1597.55 ~ 1605.89MHz)	dB		0.3	0.6
Attenuation				
100 ~ 824MHz	dB	40	46	
824 ~ 925MHz	dB	40	46	
1427 ~ 1463MHz	dB	40	45	
1710 ~ 1785MHz	dB	36	40	
1850 ~ 1980MHz	dB	36	40	
2400 ~ 2570MHz	dB	36	40	
2570 ~ 3000MHz	dB	33	40	
Package size	mm	1109		

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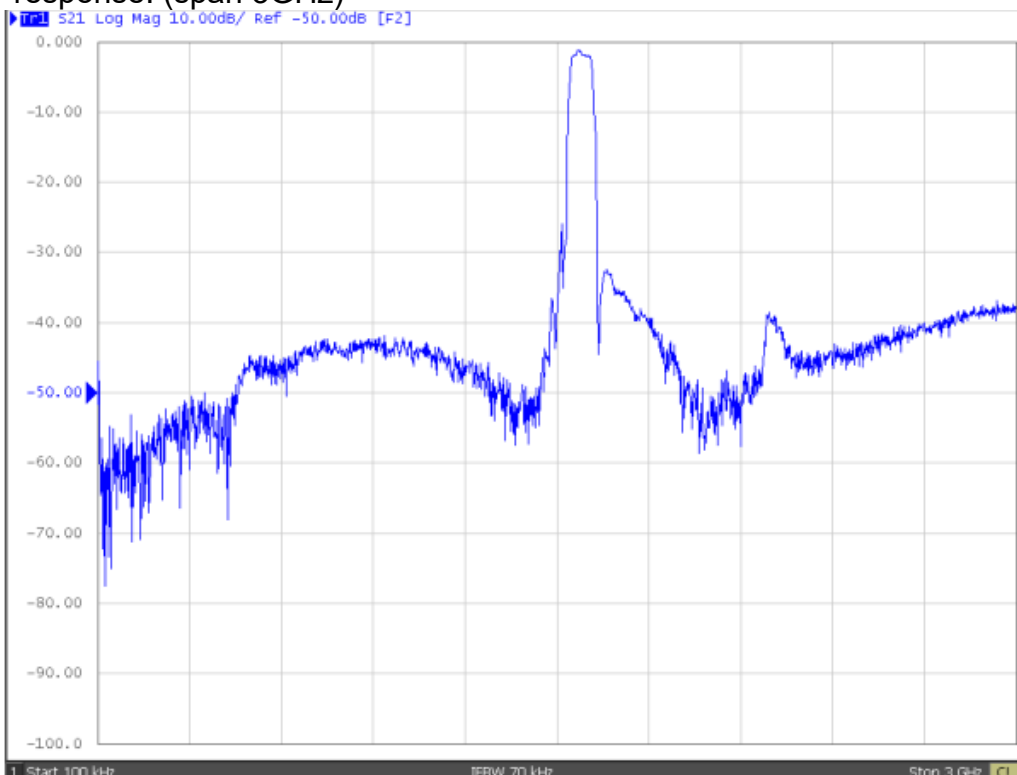
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**C. FREQUENCY CHARACTERISTICS:**

1. S21 response: (span 500MHz)



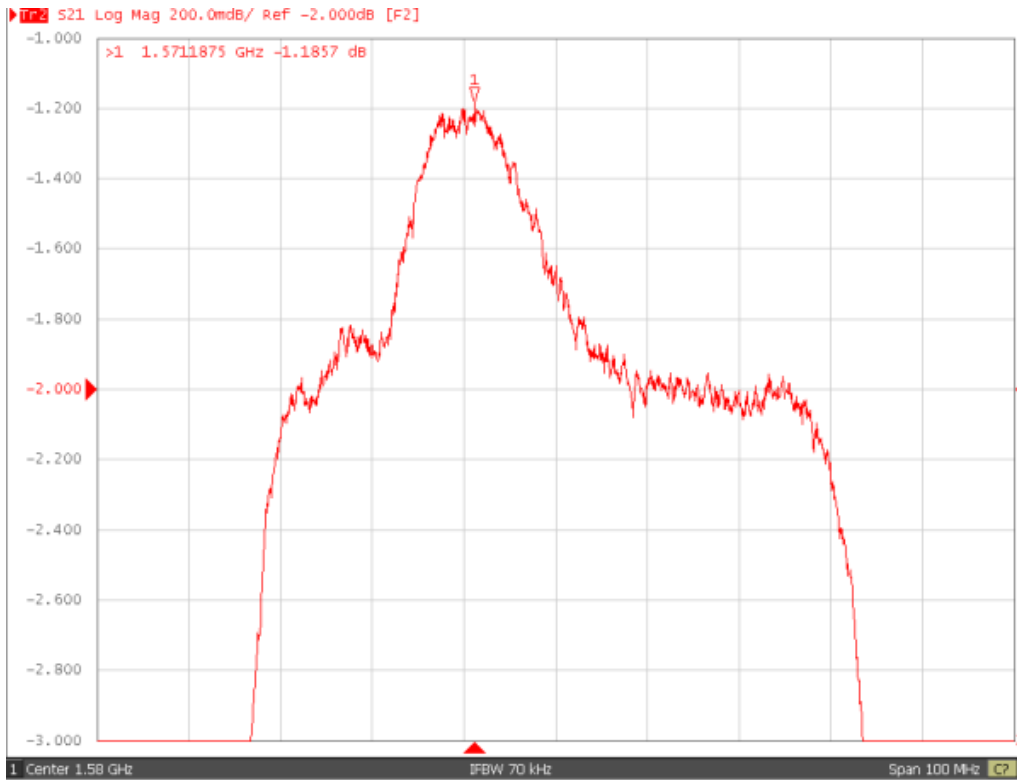
2. S21 response: (span 3GHz)



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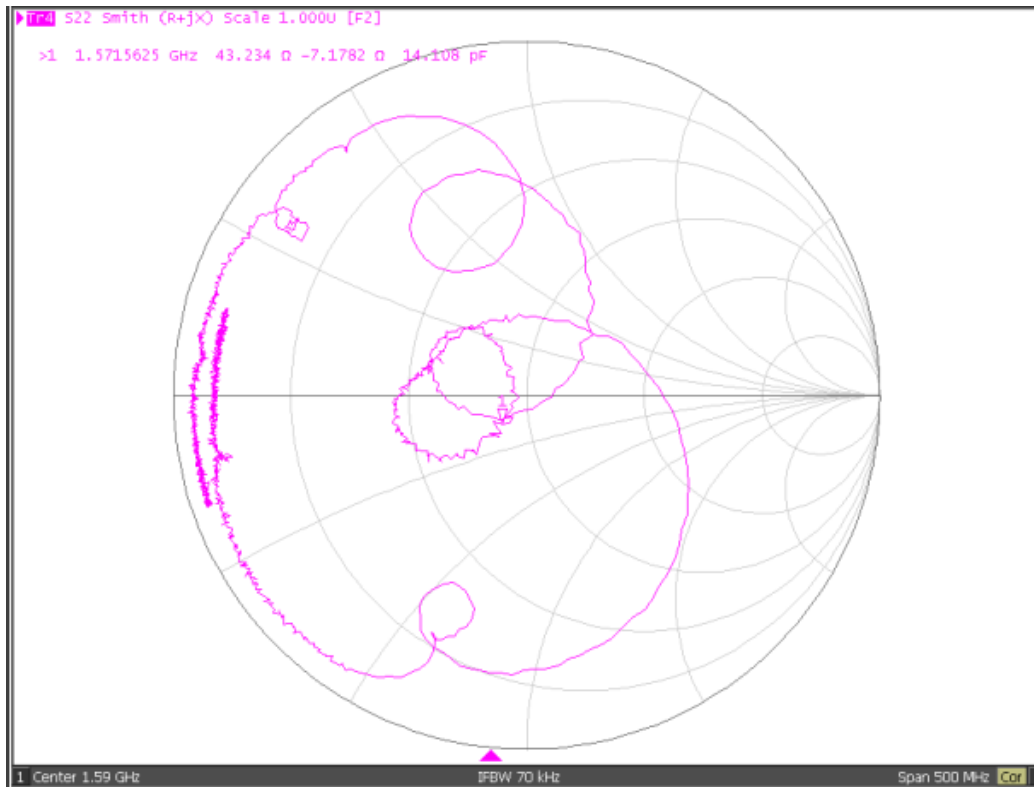
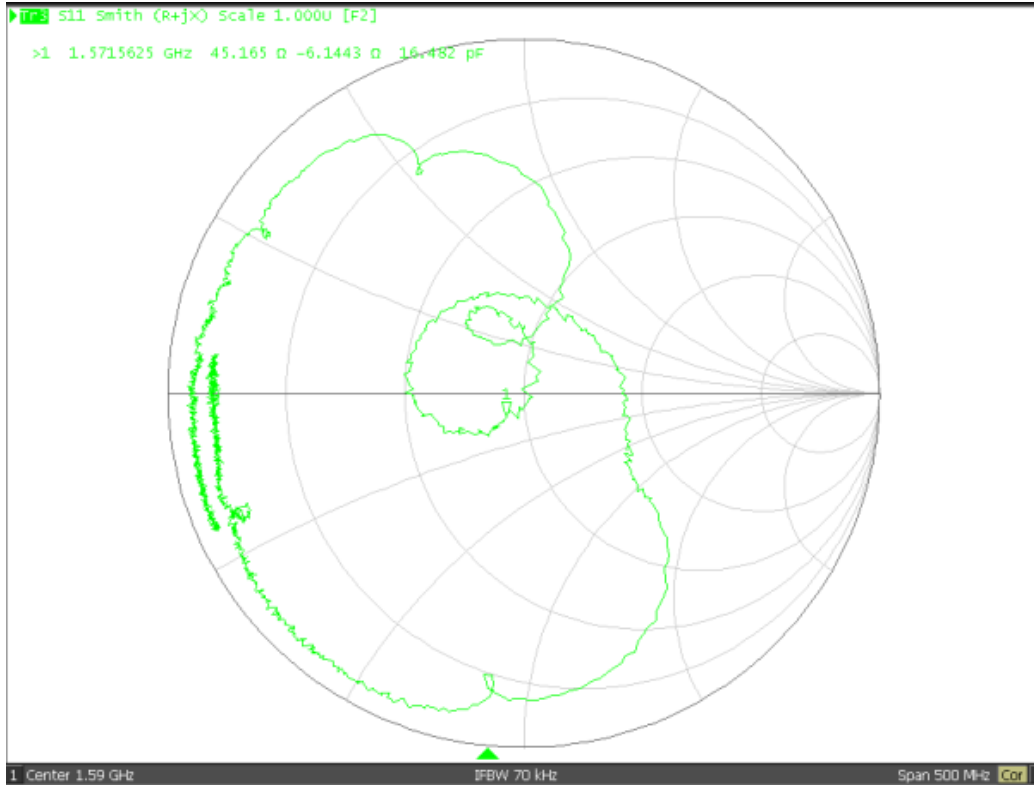
3. S21 response: (span 100MHz)



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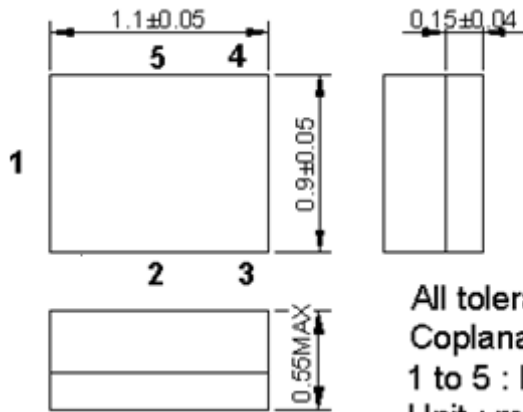
4. S11 & S22



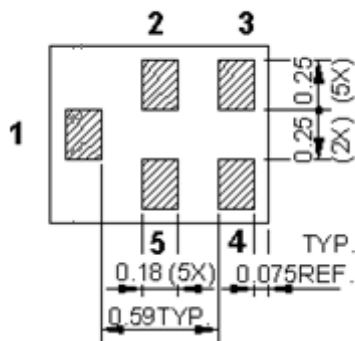
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**D. OUTLINE DRAWING:**

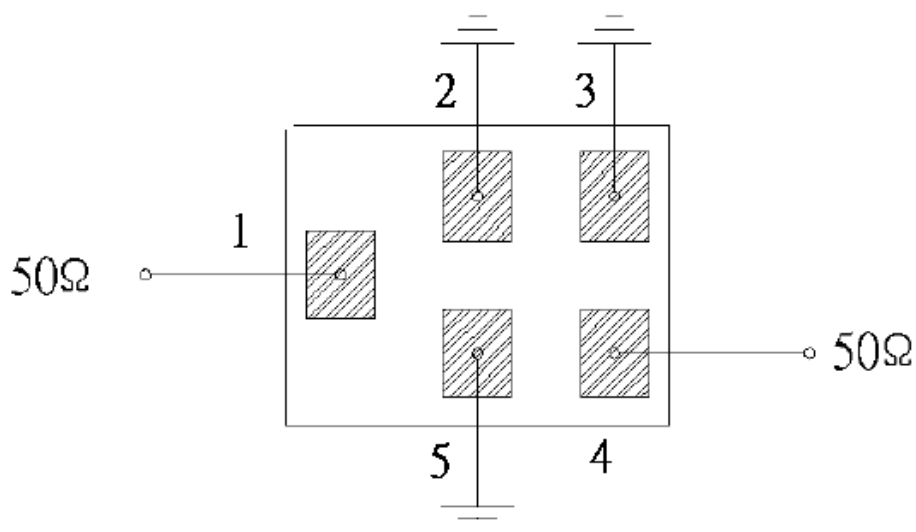


All tolerances are +/-0.05 mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm



Pin No.↕	Symbol↕	Function↕
1↕	IN↕	Input↕
2↕	GND↕	Ground↕
3↕	GND↕	Ground↕
4↕	OUT↕	Output↕
5↕	GND↕	Ground↕

**E. MEASUREMENT CIRCUIT:**

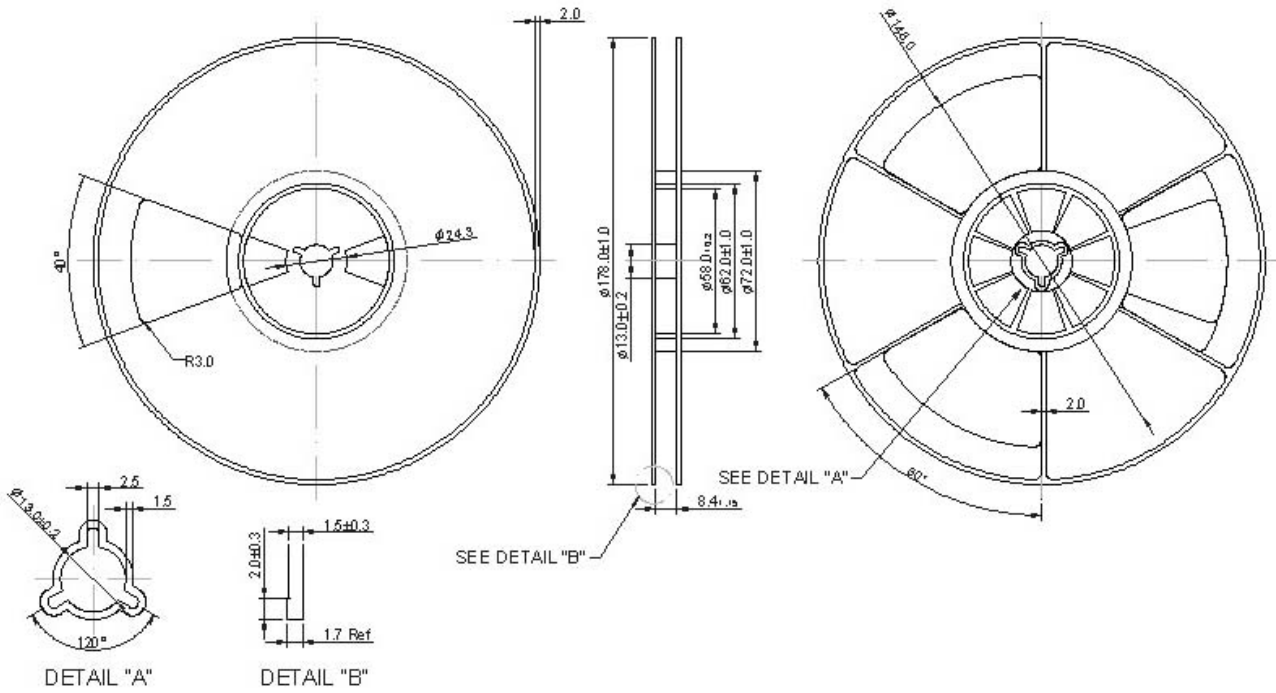


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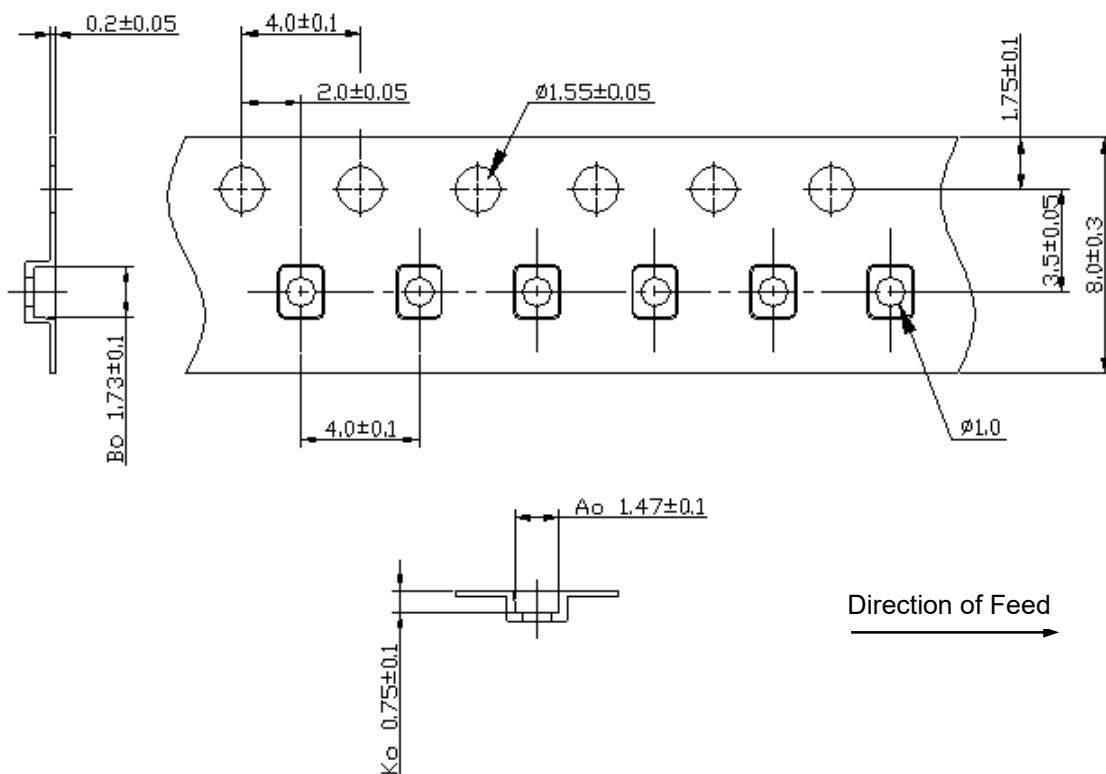
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**F. PACKING:**

**1. Reel Dimensions**



**2. Tape Dimensions**



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

