

**SAW Filter 1585.6550MHz**  
**Part No: MP08224**

**Model: TA2250A**  
**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 +105°C
5. Moisture Sensitivity Level: Level 3 (MSL3)

**B. ELECTRICAL CHARACTERISTICS:**

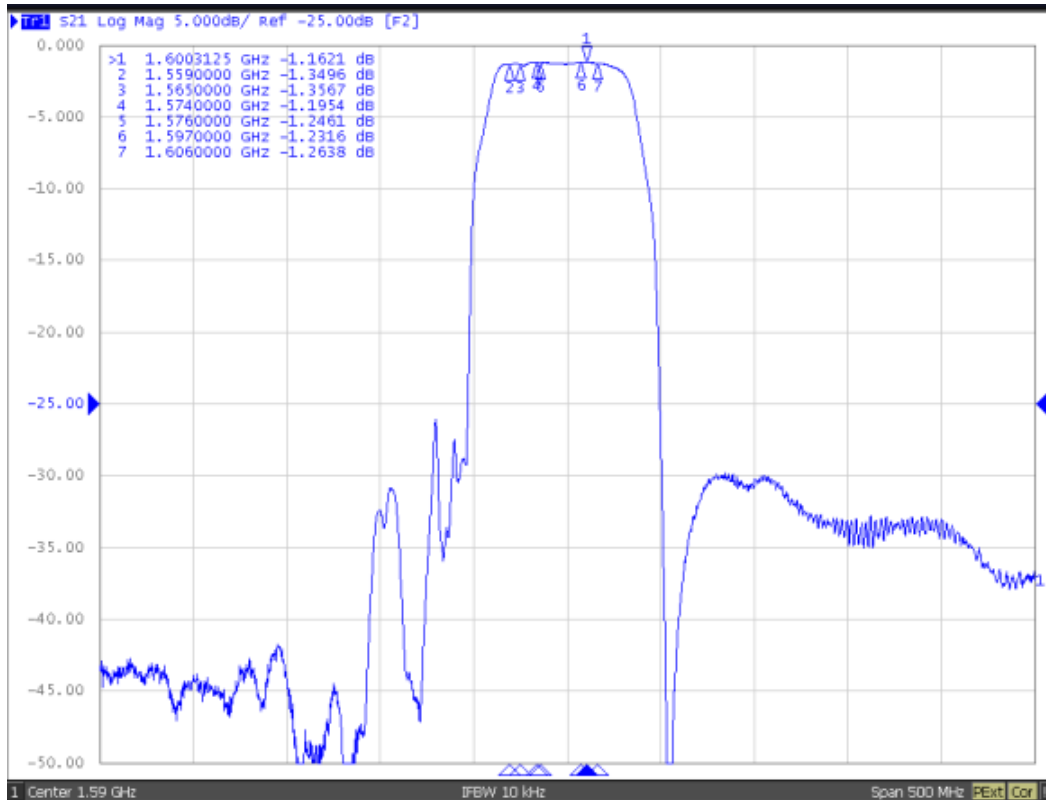
Item	Unit	Min.	Typ.	Max. -40°C to +85°C	Max. -40°C to +105°C
Center Frequency Fc	MHz	-	1585.655	-	-
Insertion Loss (1565.42~1585.42MHz)	dB	-	1.4	1.7	1.7
Insertion Loss (1574.42~1576.42MHz)			1.2	1.3	1.4
Insertion Loss (1597.55~1605.89MHz)			1.4	1.7	1.7
VSWR (1565.42~1585.42MHz)		-	1.7	1.8	2.0
VSWR (1597.55~1605.89MHz)		-	1.5	1.8	2.0
Return loss S11 (1597.55~1605.89MHz)	dB		-17	-15	-15
Return loss S22 (1597.55~1605.89MHz)	dB		-17	-15	-15
Amplitude ripple (1565.42~1605.89MHz)	dB	-	0.5	1.0	1.0
Group Delay Variation					
(1565.42~1585.42MHz)	ns		4	5	6
(1574.42~1576.42MHz)	ns		2	4	5
(1597.55~1605.89MHz)	ns		3	5	8
Attenuation					-
10 ~ 960MHz	dB	35	40	-	
1427 ~ 1453MHz	dB	37	42	-	-
1453 ~ 1501MHz	dB	25	30	-	-
1501 ~ 1525MHz	dB	21	26	-	-
1626 ~ 1660MHz	dB	2	5	-	
1710 ~ 1785MHz	dB	27	32	-	-
1850 ~ 1910MHz	dB	33	38	-	-
1920 ~ 1980MHz	dB	33	38	-	-
2110 ~ 2170MHz	dB	33	38	-	-
2400 ~ 2500MHz	dB	41	46	-	-
2500 ~ 2570MHz	dB	39	44	-	-
Temperature coefficient	ppm/°C	-36			
Package size	mm	SMD 1.1x0.9			

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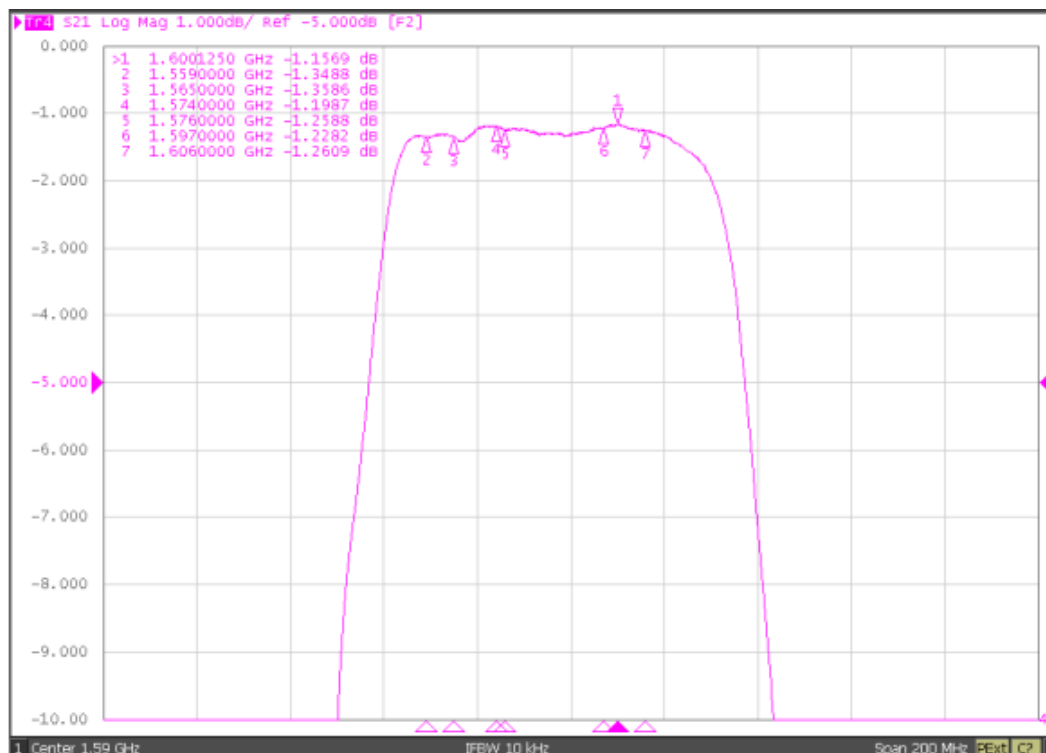
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**C. FREQUENCY CHARACTERISTICS:**

1. S21 response: (span 500MHz)



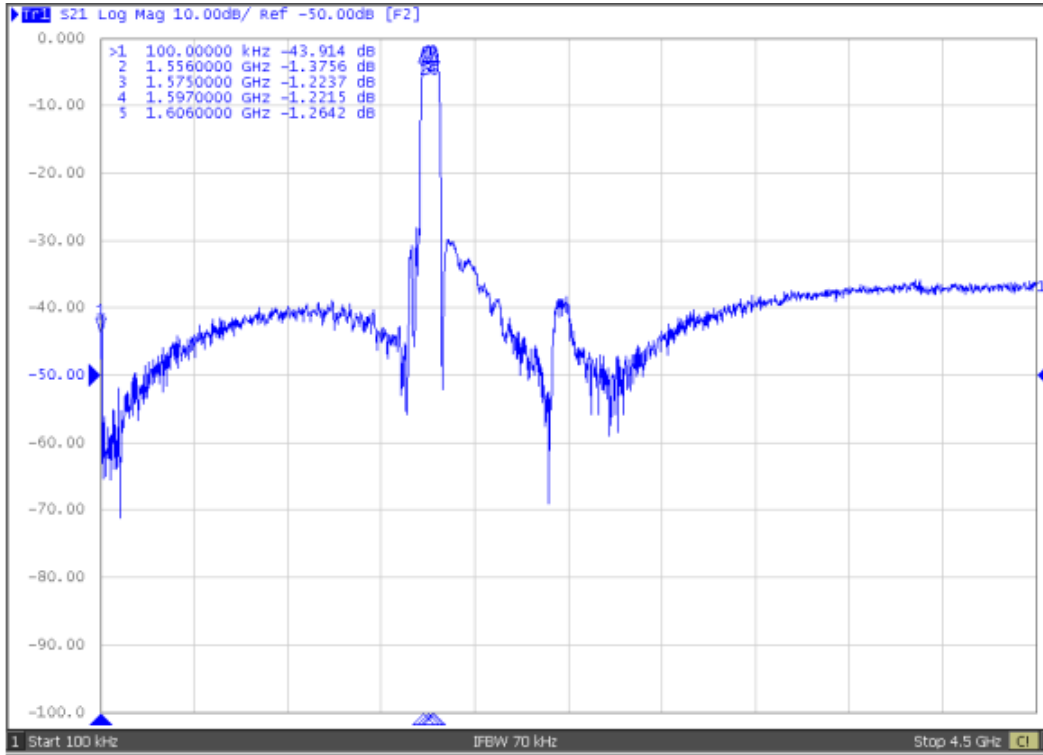
2. S21 response: (span 200MHz)



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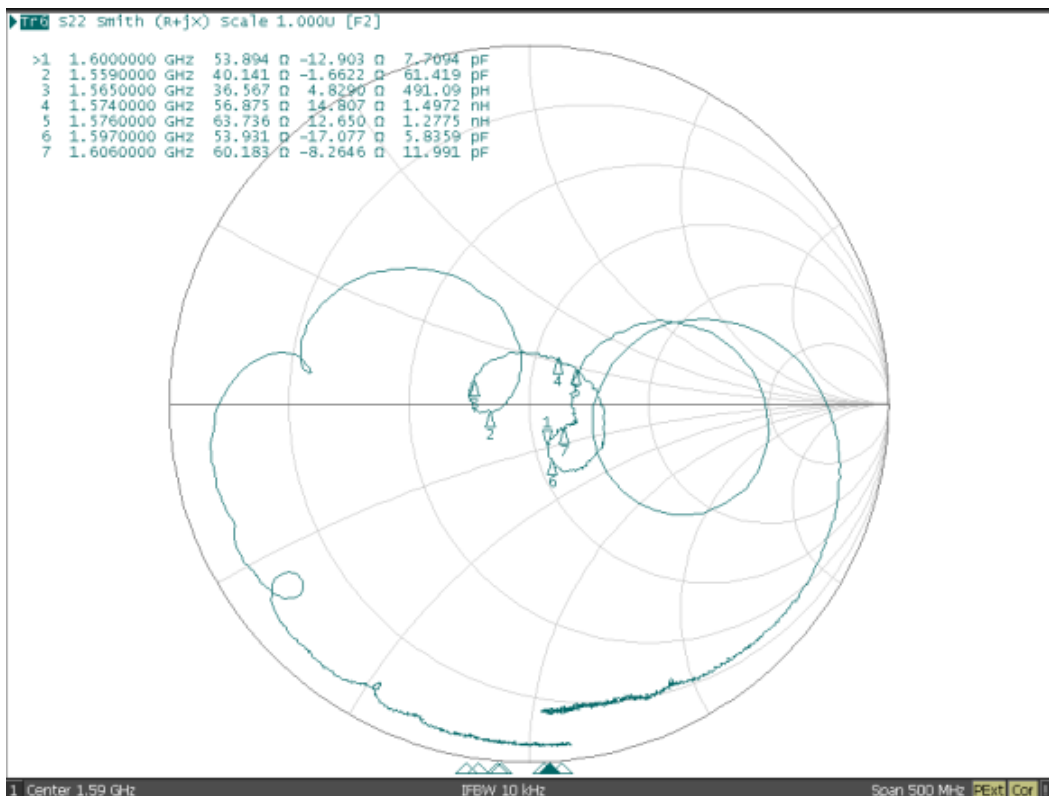
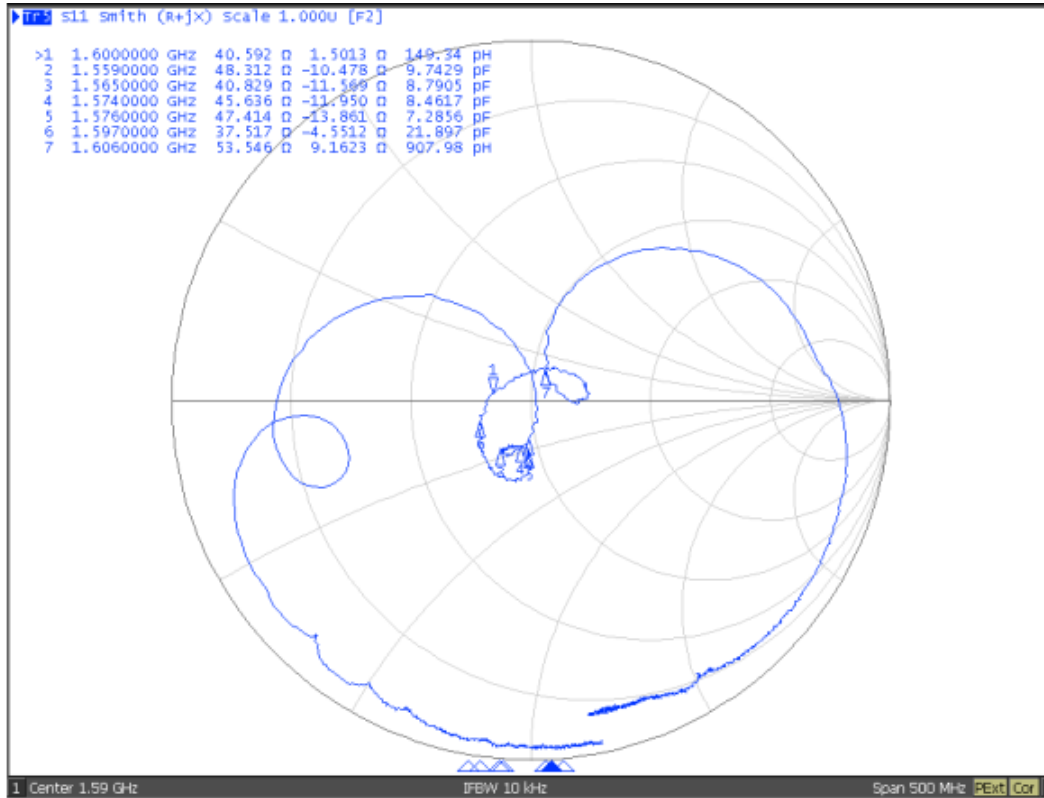
3. S21 response: (span 4.5GHz)



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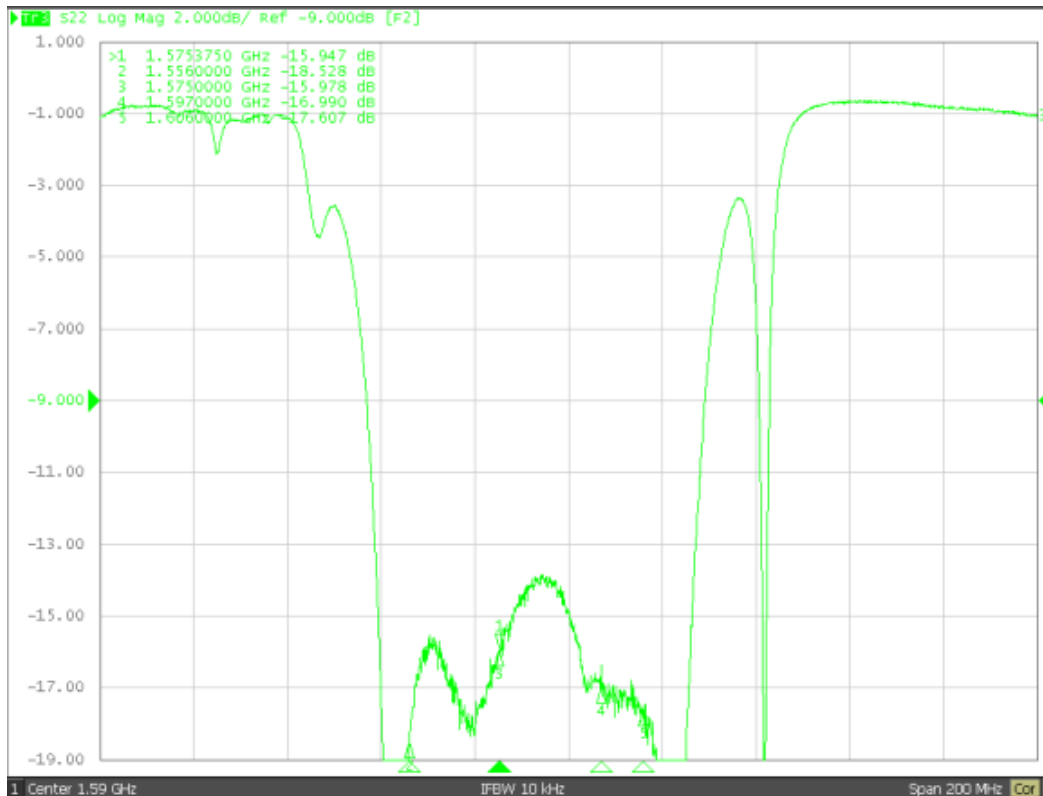
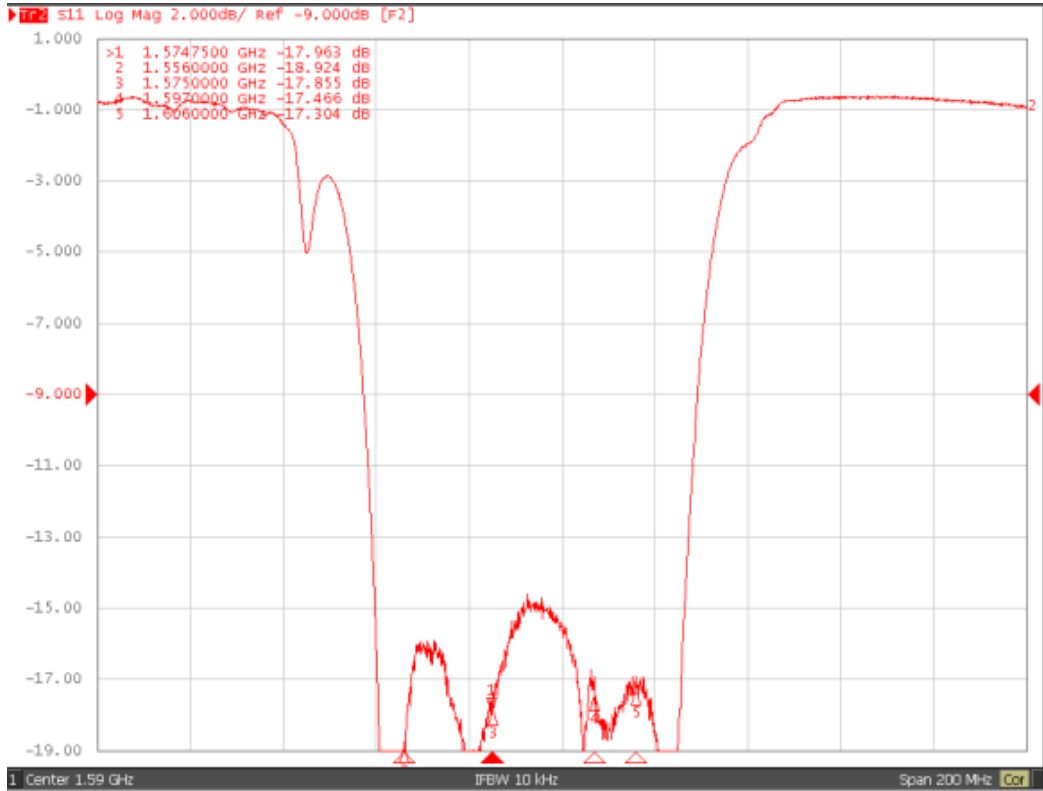
4. S11 response:



**SAW Filter 1585.6550MHz**  
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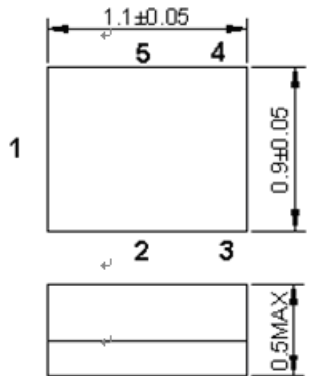
5. S22 response:



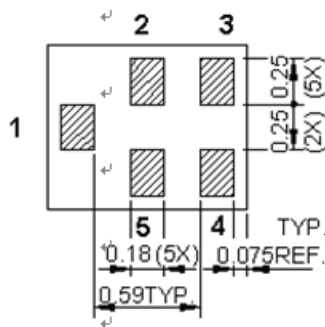
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**D. OUTLINE DRAWING:**

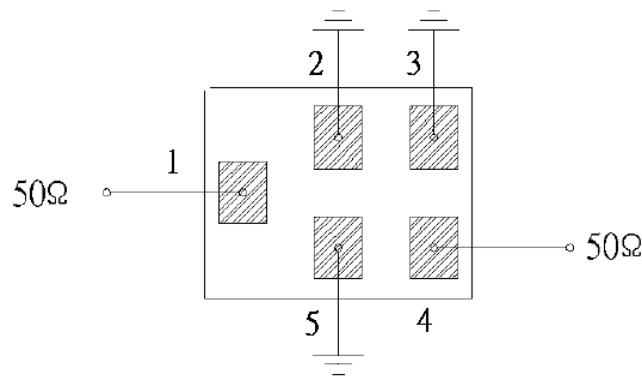


All tolerances are  $\pm 0.05$  mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm

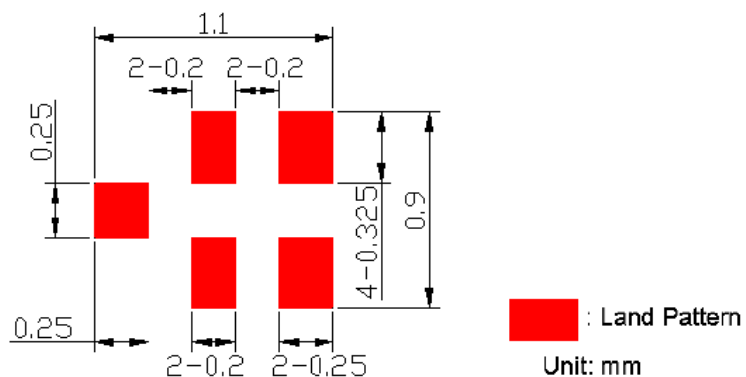


Pin-No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

**E. MEASUREMENT CIRCUIT:**



**F. PCB FOOTPRINT:**

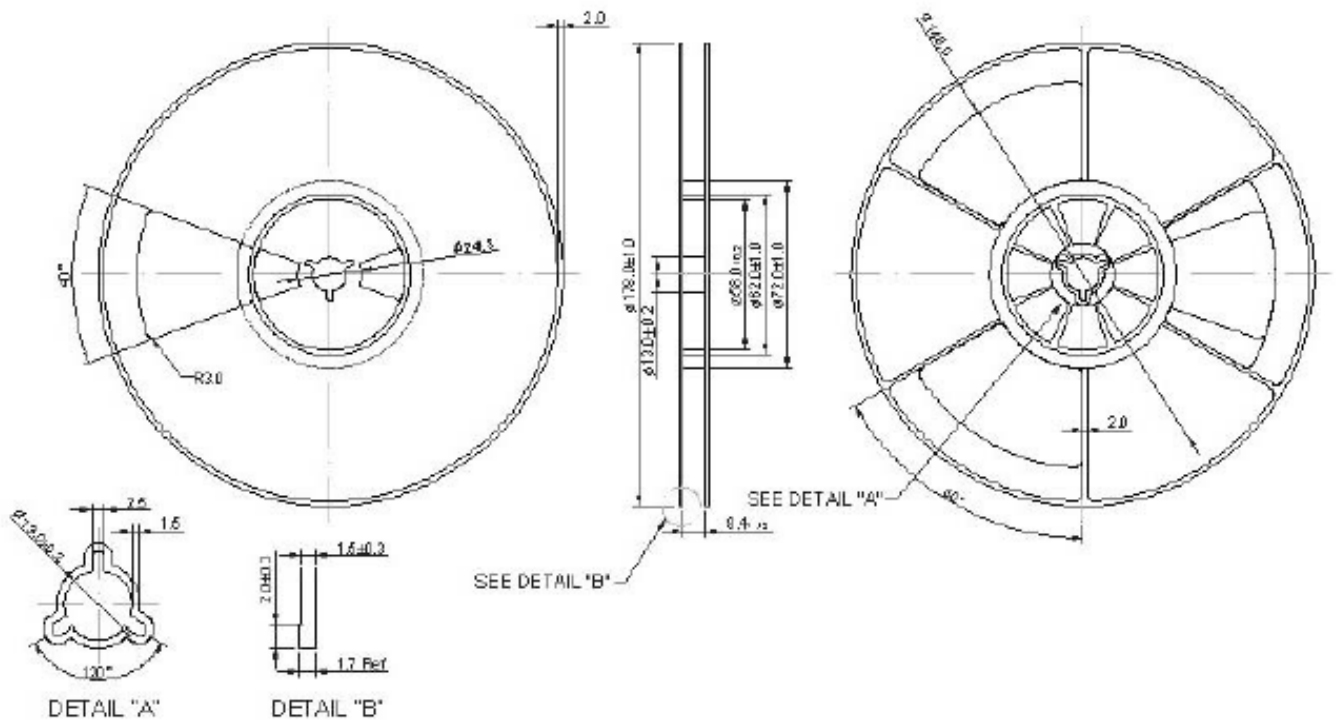


**SAW Filter 1585.6550MHz**  
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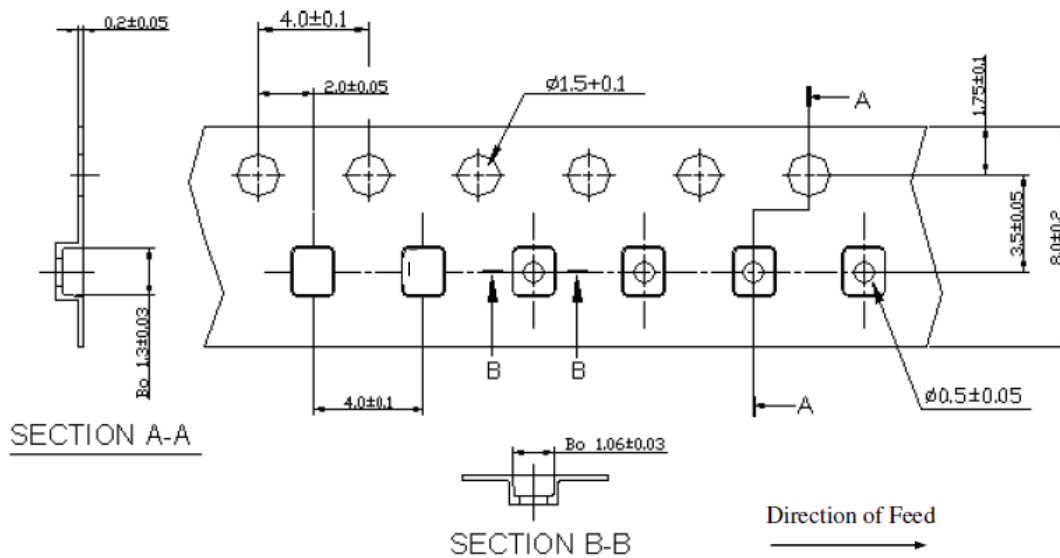
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**G. PACKING:**

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

