

**SAW Filter 1582.470MHz**  
**Part No: MP07322**

**Model: TA1954A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Maximum Input Power: 15dBm
2. Operating Temperature: -30°C to +85°C
3. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

1. Terminating source impedance:  $Z_S = 50 \Omega$  (Single-ended)
2. Terminating load impedance:  $Z_L = 50 \Omega$  (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency		MHz	-	1582.47	-
Insertion Loss	1574.42 ~ 1576.42MHz	dB		1.2	1.7
	1597.55 ~ 1605.89MHz			1.8	2.5
	1559.05 ~ 1563.14MHz			1.7	2.5
Amplitude Ripple	1574.42 ~ 1576.42MHz	dB p-p		0.1	0.8
	1597.55 ~ 1605.89MHz			0.55	0.14
	1559.05 ~ 1563.14MHz			0.2	1.2
Group Delay Ripple	1574.42 ~ 1576.42MHz	nsec		1.0	6.0
	1597.55 ~ 1605.89MHz			4.0	12.5
	1559.05 ~ 1563.14MHz			5.0	16.0
VSWR(Input/Output)	1574.42 ~ 1576.42MHz	-		1.5	2.1
	1597.55 ~ 1605.89MHz			1.4	2.0
	1559.05 ~ 1563.14MHz			1.5	2.0
Attenuation					
699.0 ~ 716.0MHz		dB		43	47
777.0 ~ 787.0MHz				45	46.5
814.0 ~ 849.0MHz				45	46.5
880.0 ~ 915.0MHz				45	46.5
1427.9 ~ 1446.9MHz				45	53
1447.9 ~ 1462.9MHz				45	54
1710.0 ~ 1785.0MHz				47	54
1850.0 ~ 1915.0MHz				47	54

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1920.0 ~ 1980.0MHz	dB	47	54	-
2400.0 ~ 2500.0MHz	dB	45	50	-
2500.0 ~ 2570.0MHz	dB	45	50	-

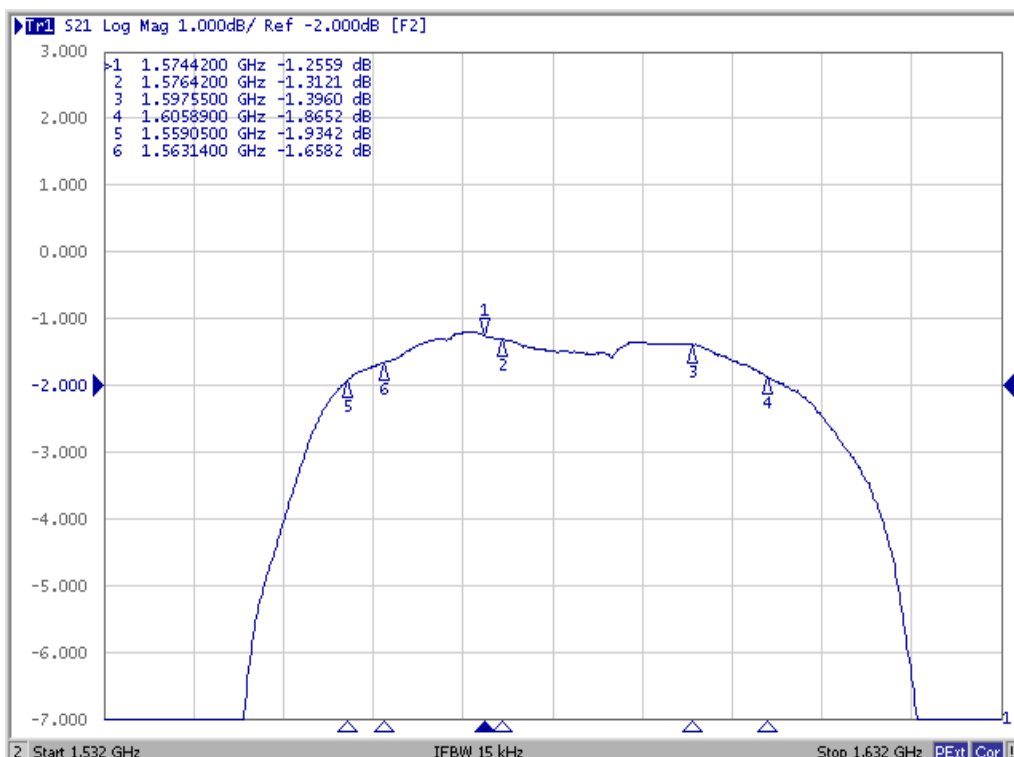
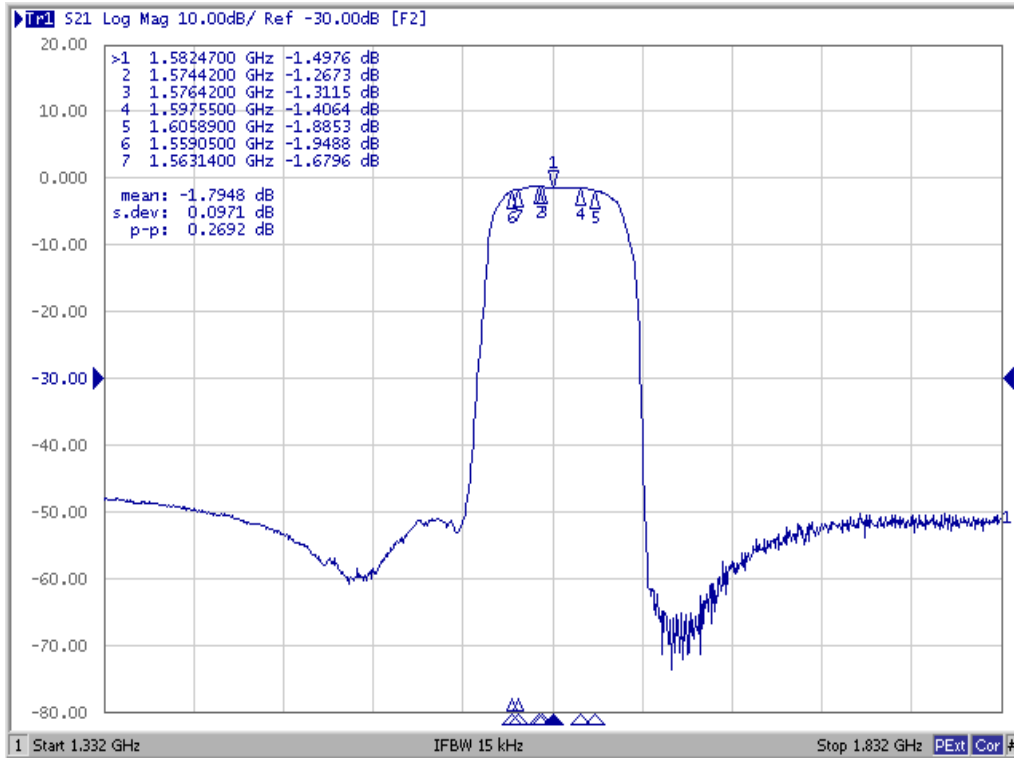
Note: No Matching Network.

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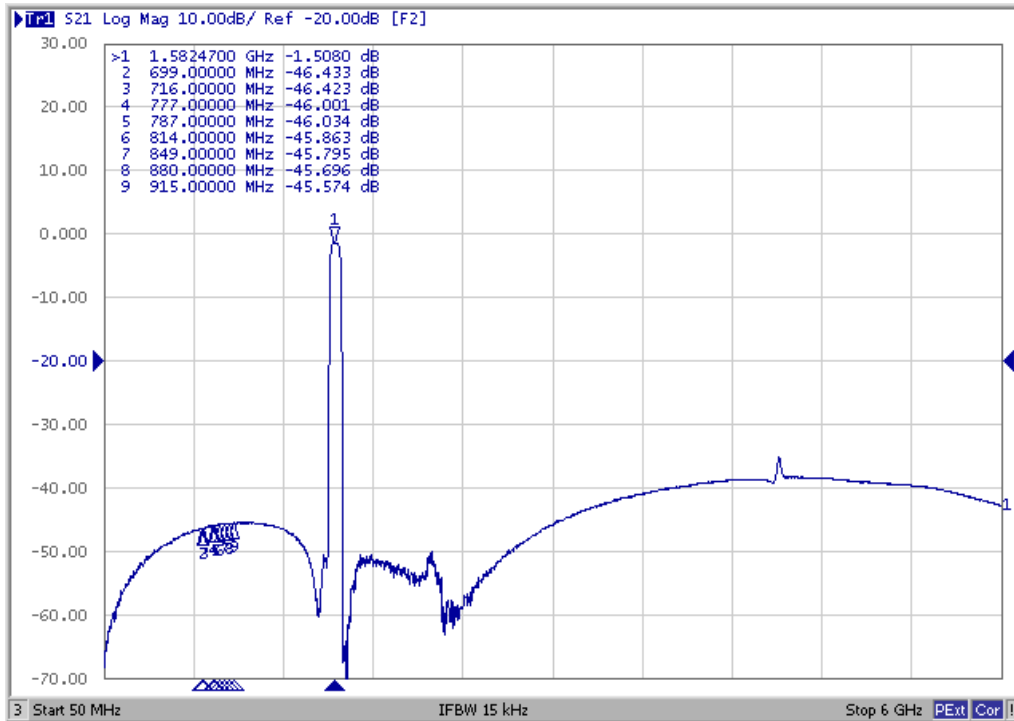
**C. FREQUENCY CHARACTERISTIC:**

1. Frequency Response

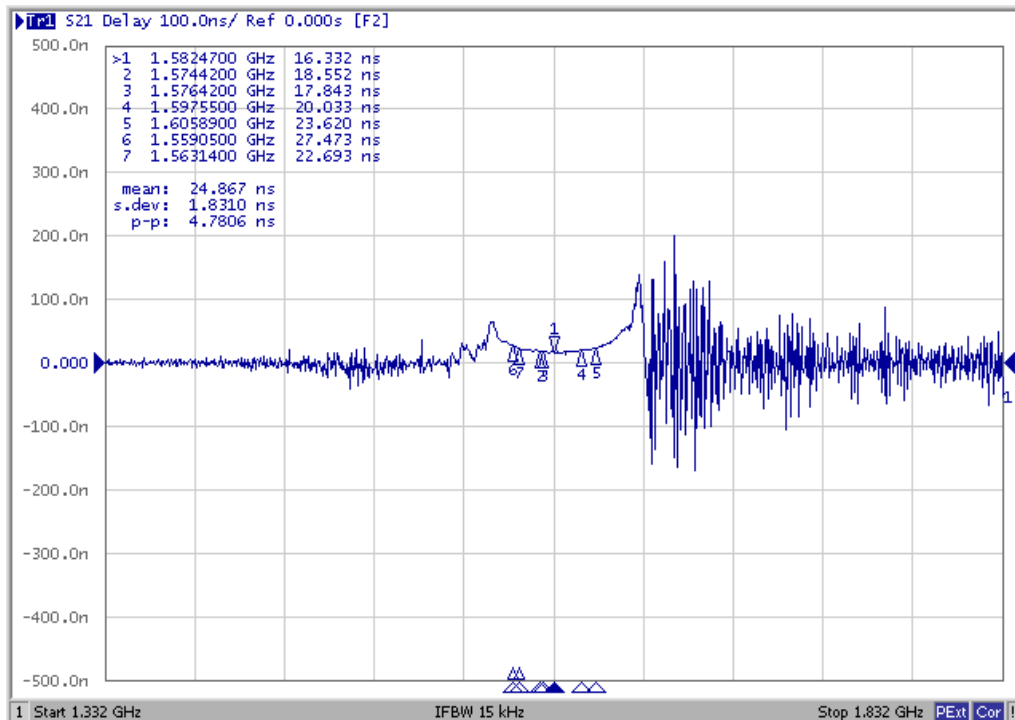


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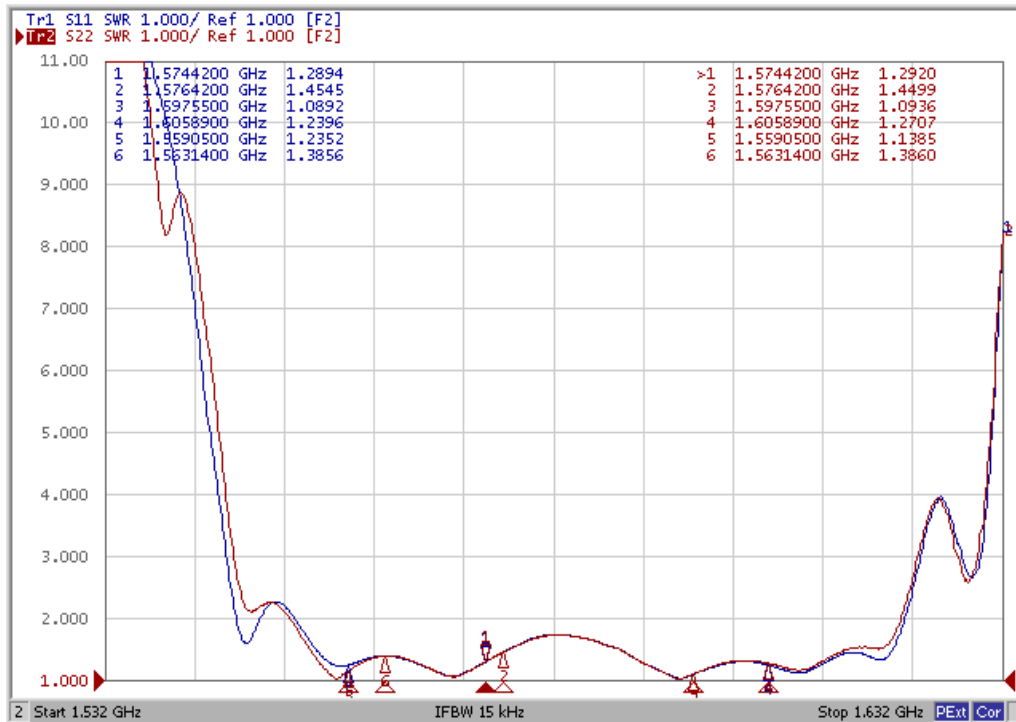
## 2. Group Delay Ripple



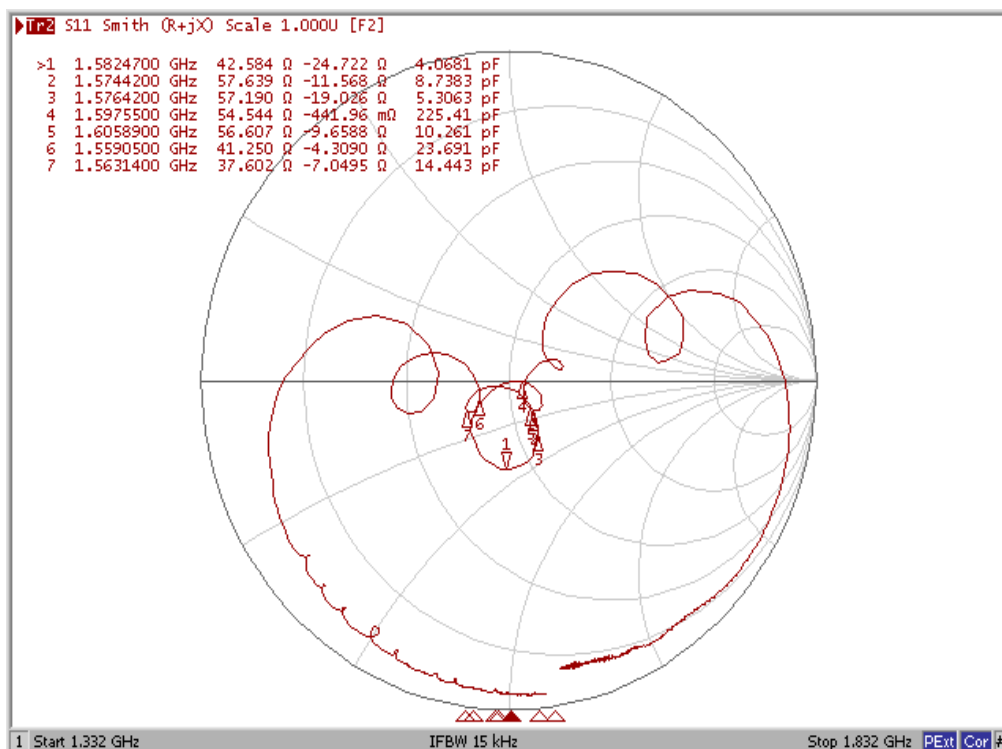
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3. VSWR

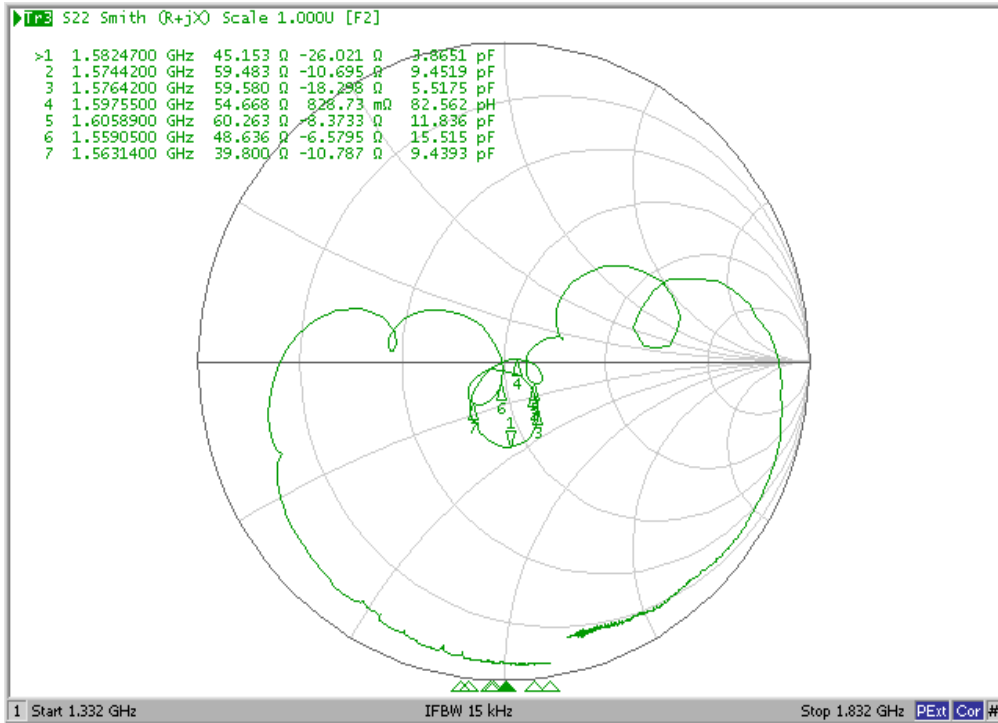


4. Smith Chart



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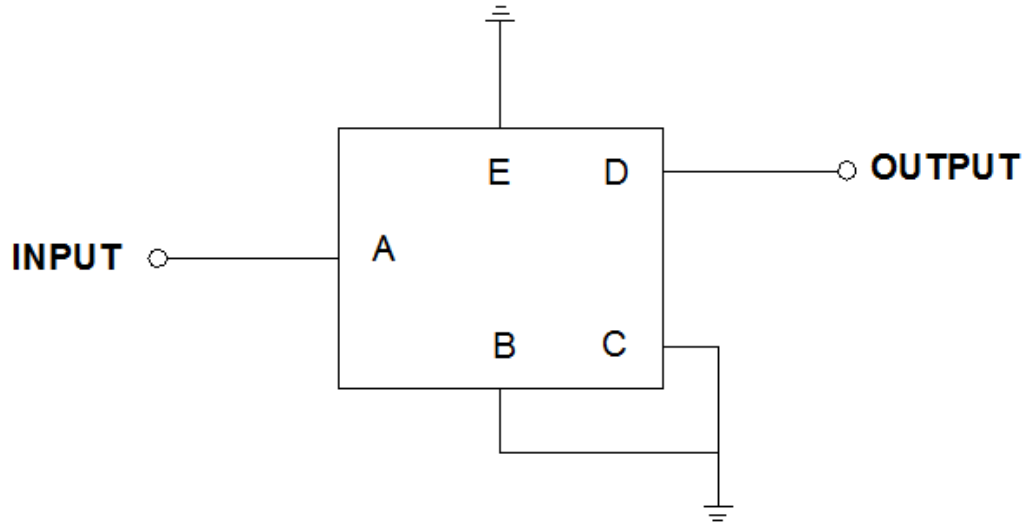
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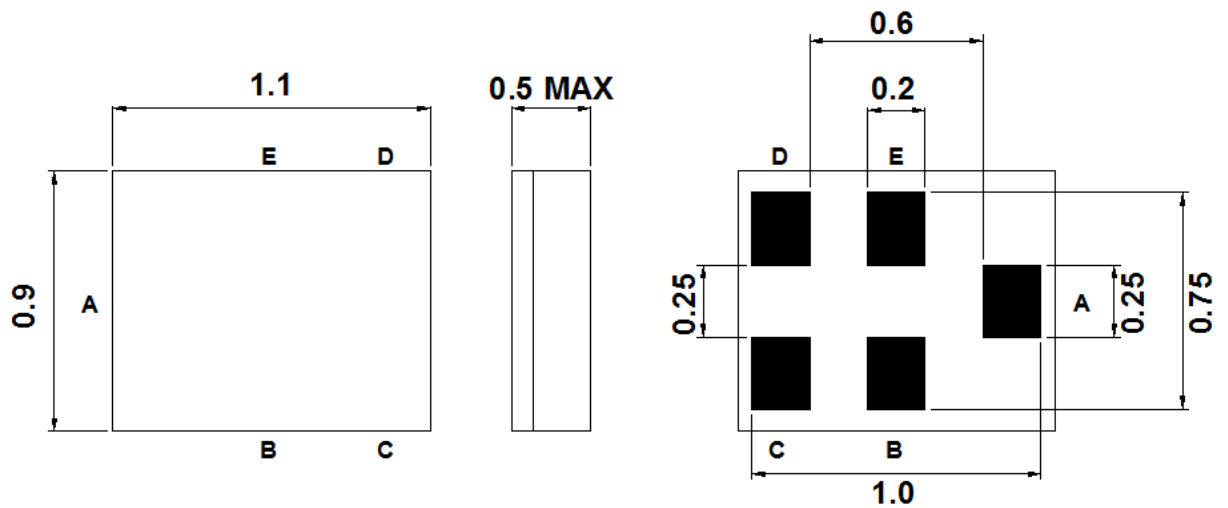
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**D. MEASUREMENT CIRCUIT:**



**E. OUTLINE DRAWING:**

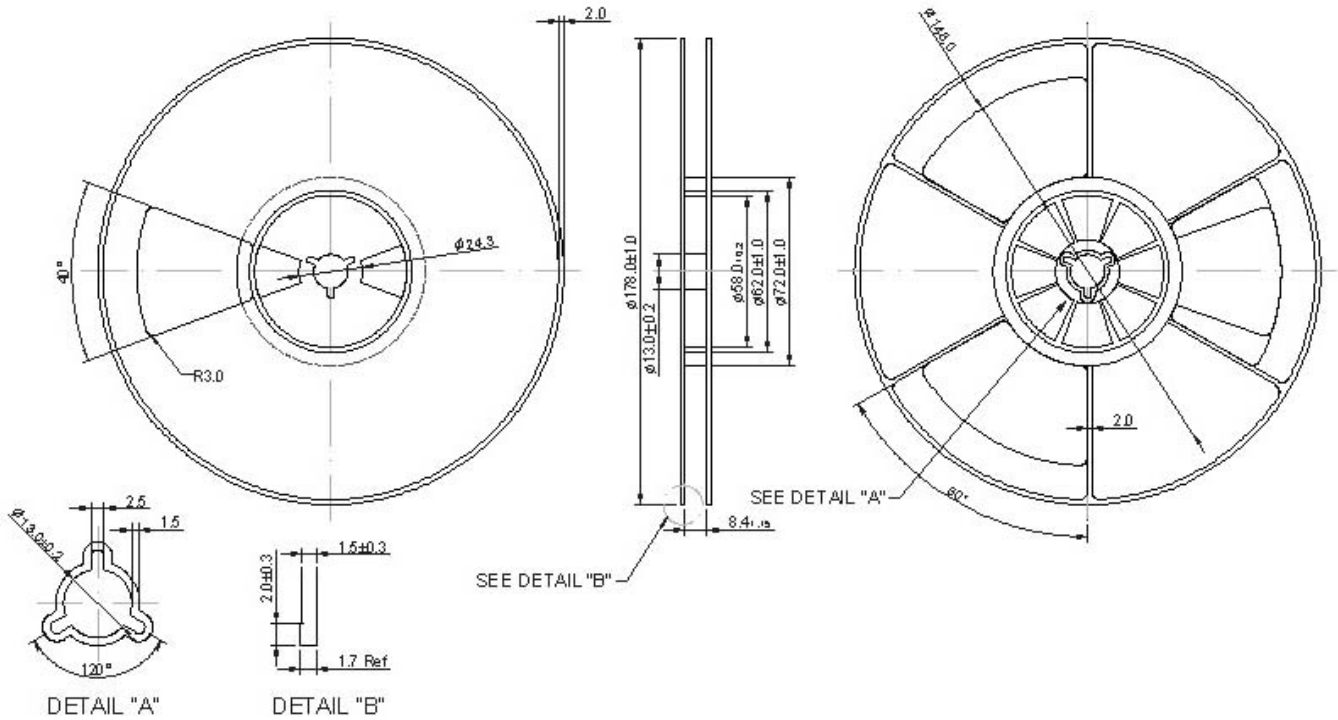


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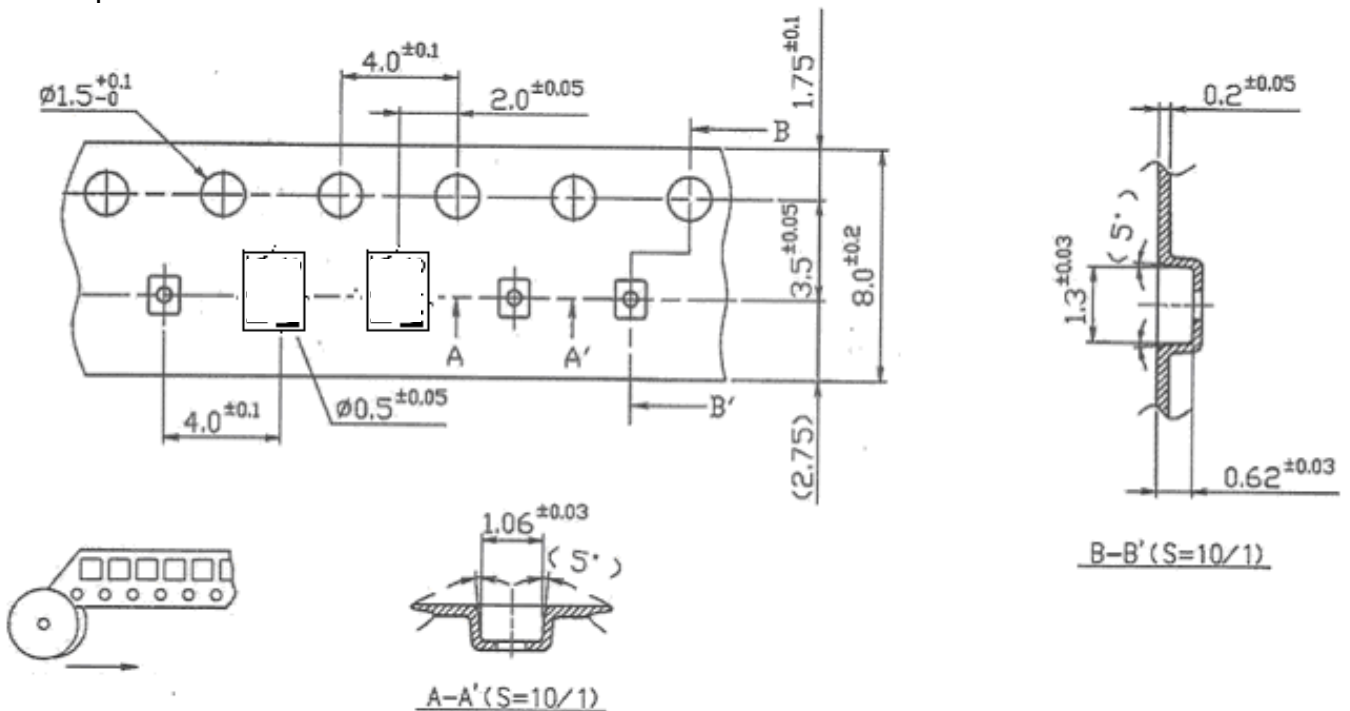
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**F. PACKING:**

1. Reel Dimension



2. Tape Dimension





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**G. RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING:**

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.

