

SAW Filter 1582.470MHz

Model: TA1954A

Part No: MP07322

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	dB		1.8	2.5
	1559.05 ~ 1563.14MHz	dB		1.7	2.5
Amplitude Ripple	1574.42 ~ 1576.42MHz	dB p-p		0.1	0.8
	1597.55 ~ 1605.89MHz	dB p-p		0.55	0.14
	1559.05 ~ 1563.14MHz	dB p-p		0.2	1.2
Group Delay Ripple	1574.42 ~ 1576.42MHz	nsec		1.0	6.0
	1597.55 ~ 1605.89MHz	nsec		4.0	12.5
	1559.05 ~ 1563.14MHz	nsec		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		dB	45	46.5	-
814.0 ~ 849.0MHz		dB	45	46.5	-
880.0 ~ 915.0MHz		dB	45	46.5	-
1427.9 ~ 1446.9MHz		dB	45	53	-
1447.9 ~ 1462.9MHz		dB	45	54	-
1710.0 ~ 1785.0MHz		dB	47	54	-
1850.0 ~ 1915.0MHz		dB	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	-

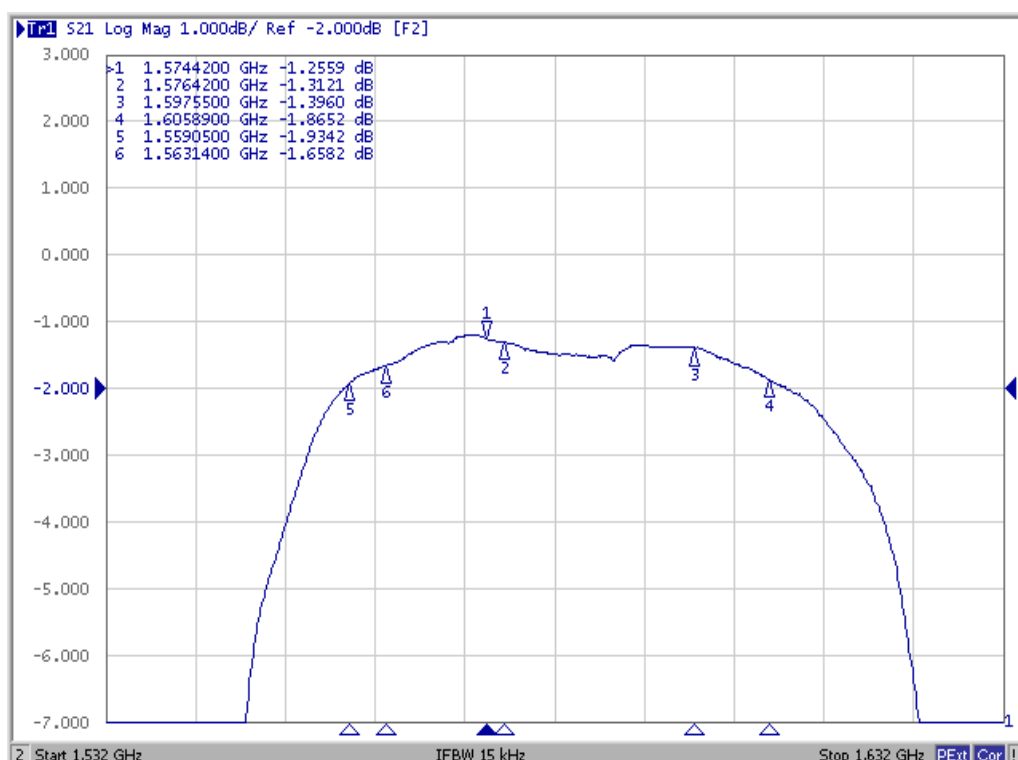
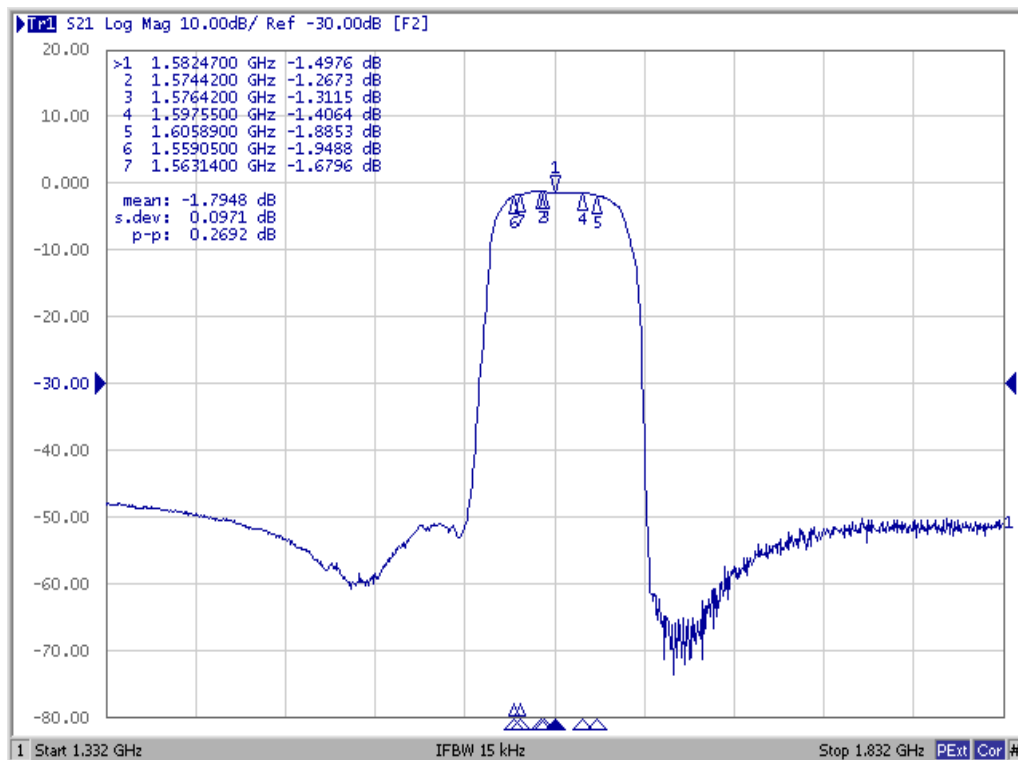
Note: No Matching Network.

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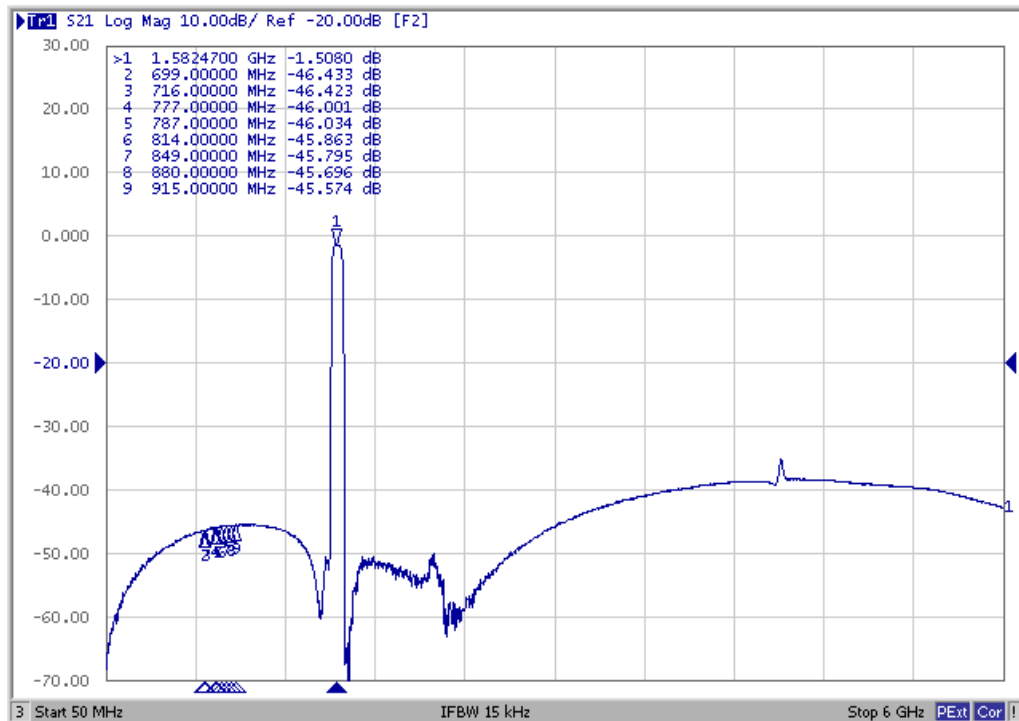
C. FREQUENCY CHARATERISTIC:

1. Frequency Response

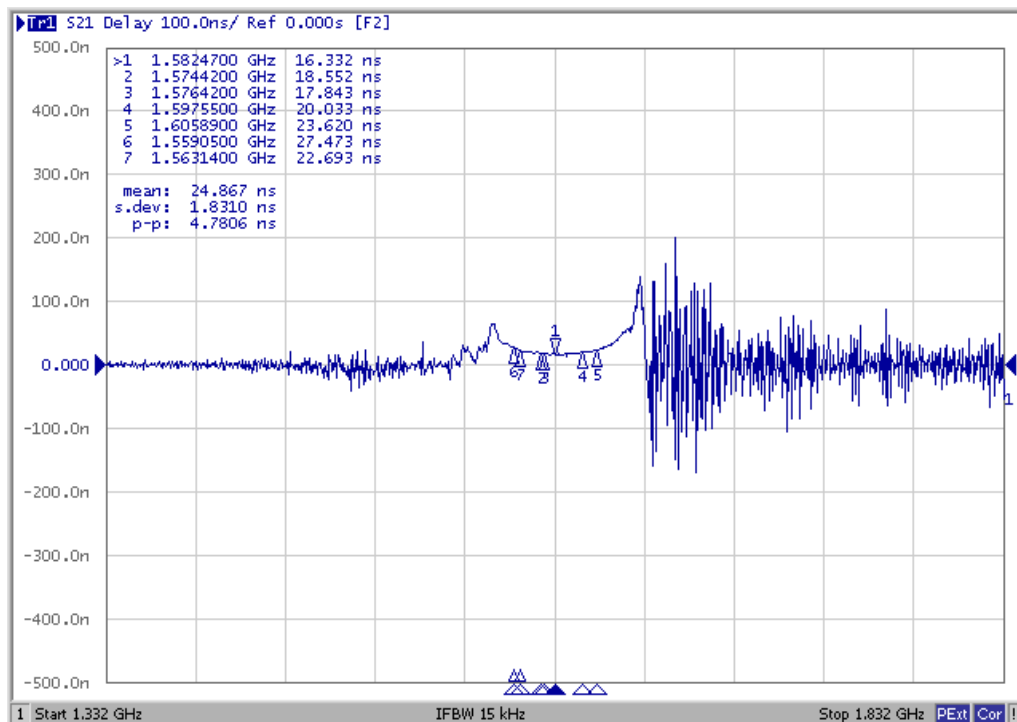


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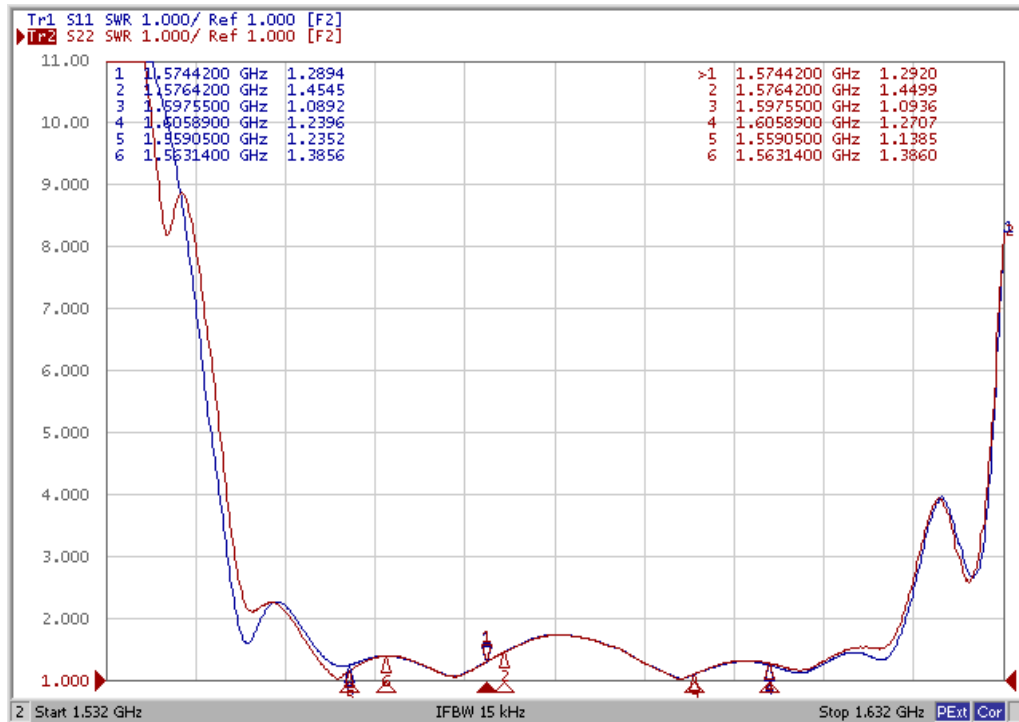
2. Group Delay Ripple



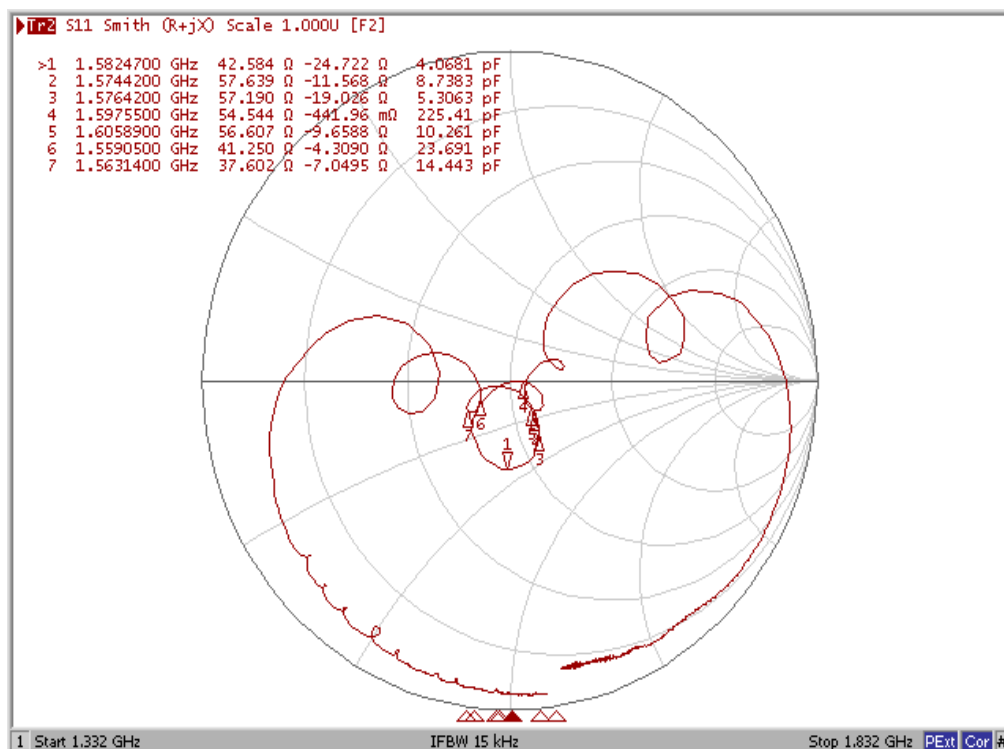
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3. VSWR

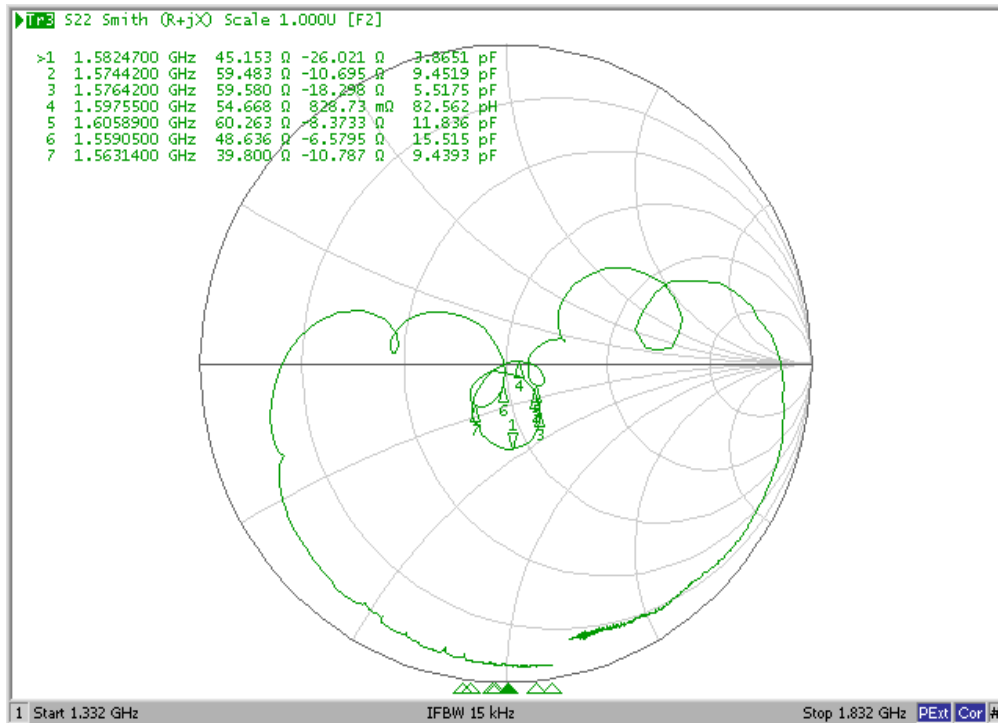


4. Smith Chart



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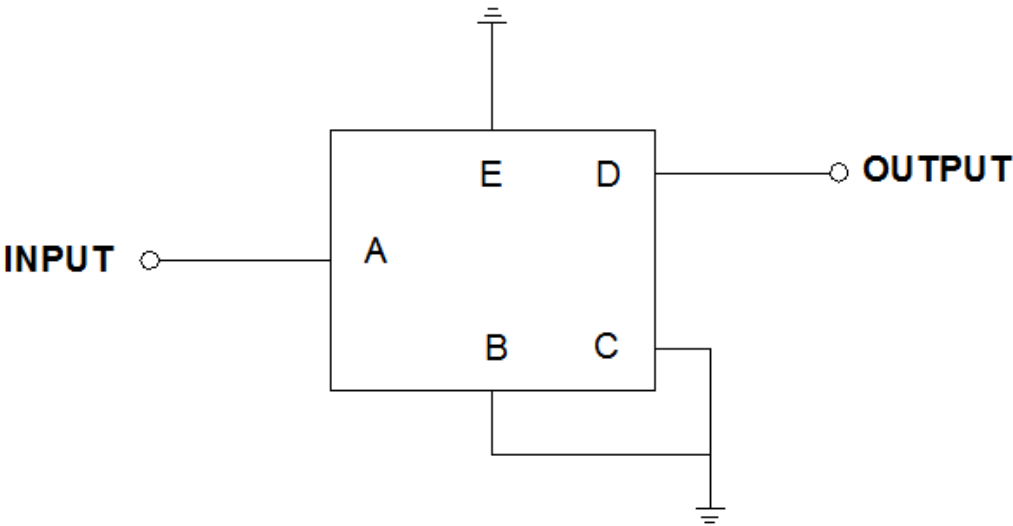
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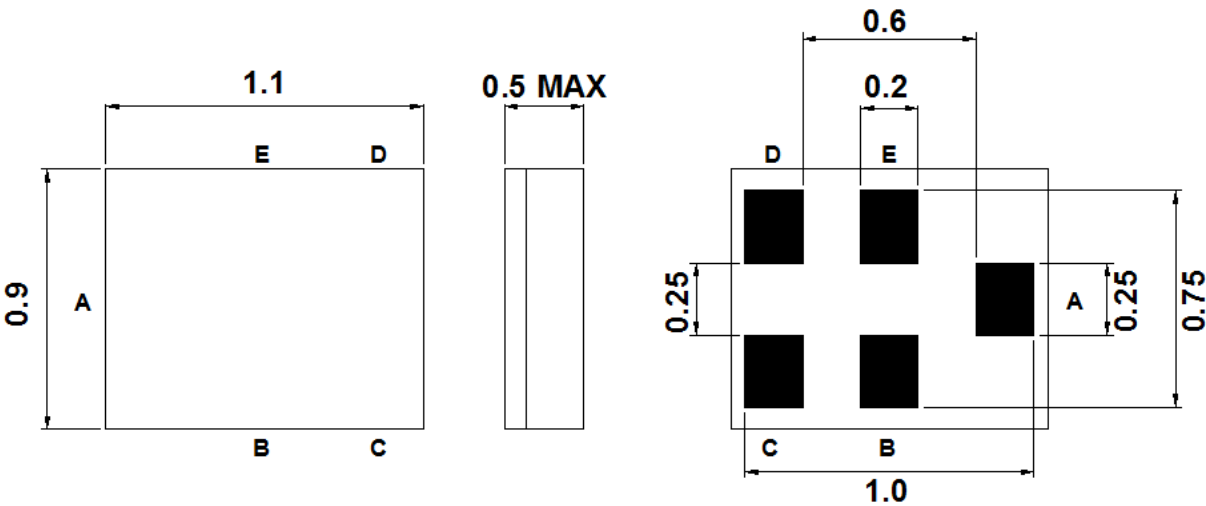
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D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:

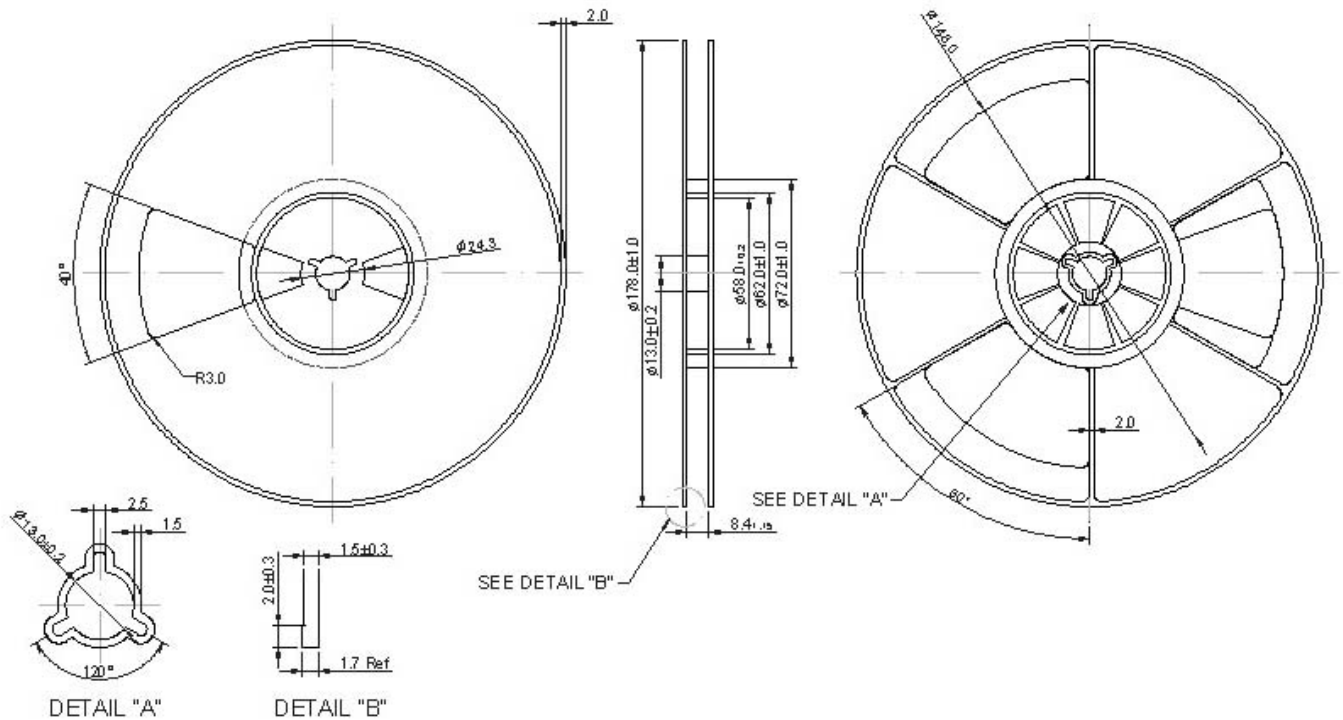


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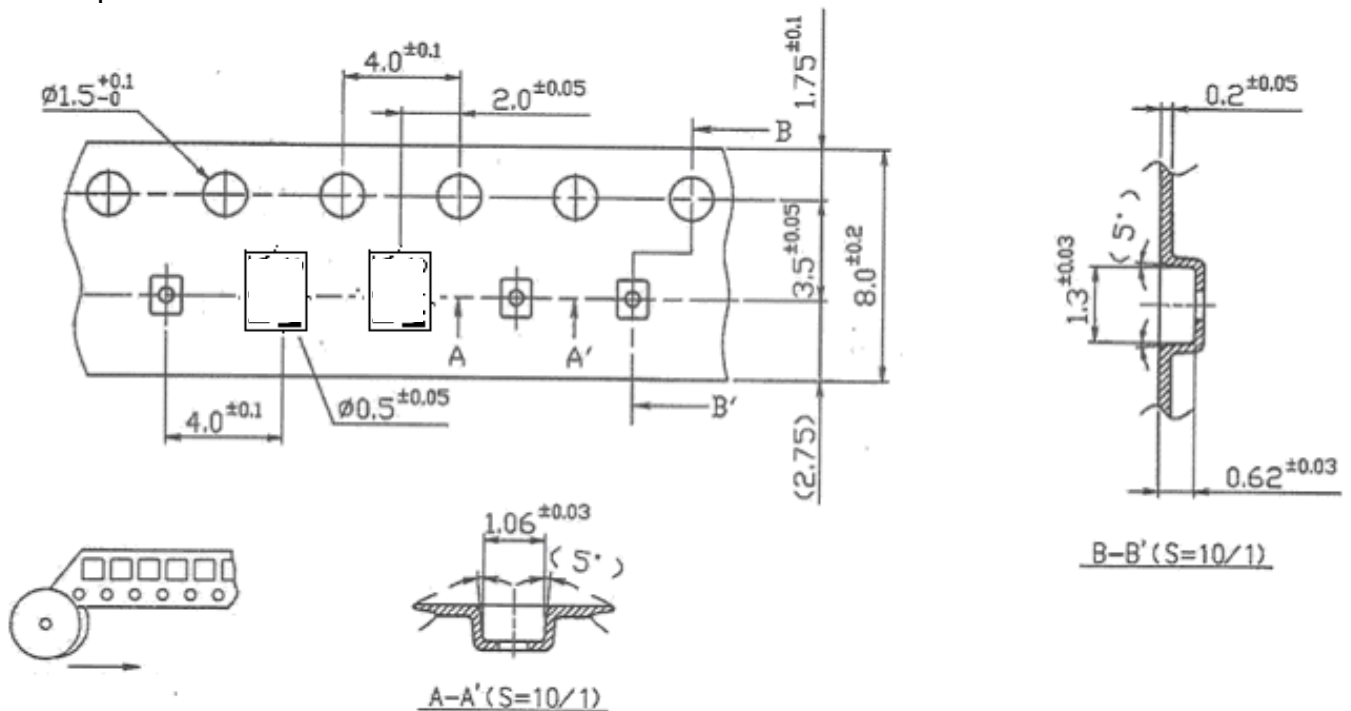
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F. PACKING:

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.

