

SAW Filter 2655.0MHz
Part No: MP07845

Model: TA1847C
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Operating temperature range: -30°C to +85°C
2. Storage temperature range: -40°C to +100°C
3. Maximum Input Power: +10dBm
4. Maximum DC Voltage: ±5V
5. Moisture Sensitivity Level: Level 1

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: $Z_S = 50 \parallel 5.1\text{nH } \Omega$ (Single-ended)
2. Terminating load impedance: $Z_L = 50 \parallel 5.1\text{nH } \Omega$ (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.	
Center Frequency		MHz	-	2655	-	
Insertion Loss(*1)	2620 ~ 2690MHz	dB	-	2.5	3.0	
Amplitude Ripple	2620 ~ 2690MHz	dB	-	0.8	1.5	
VSWR	Input	2620 ~ 2690MHz	-	-	1.6	2.0
	Output	2620 ~ 2690MHz	-	-	1.8	2.2
Attenuation:						
1 ~ 2400MHz		dB	30	36	-	
45MHz		dB	50	65	-	
2400 ~ 2500MHz		dB	32	37	-	
2500 ~ 2570MHz		dB	35	38	-	
2570 ~ 2600MHz		dB	2	4	-	
2775 ~ 6000MHz		dB	15	30	-	
7620 ~ 7830MHz		dB	15	25	-	
7860 ~ 8000MHz		dB	15	24	-	

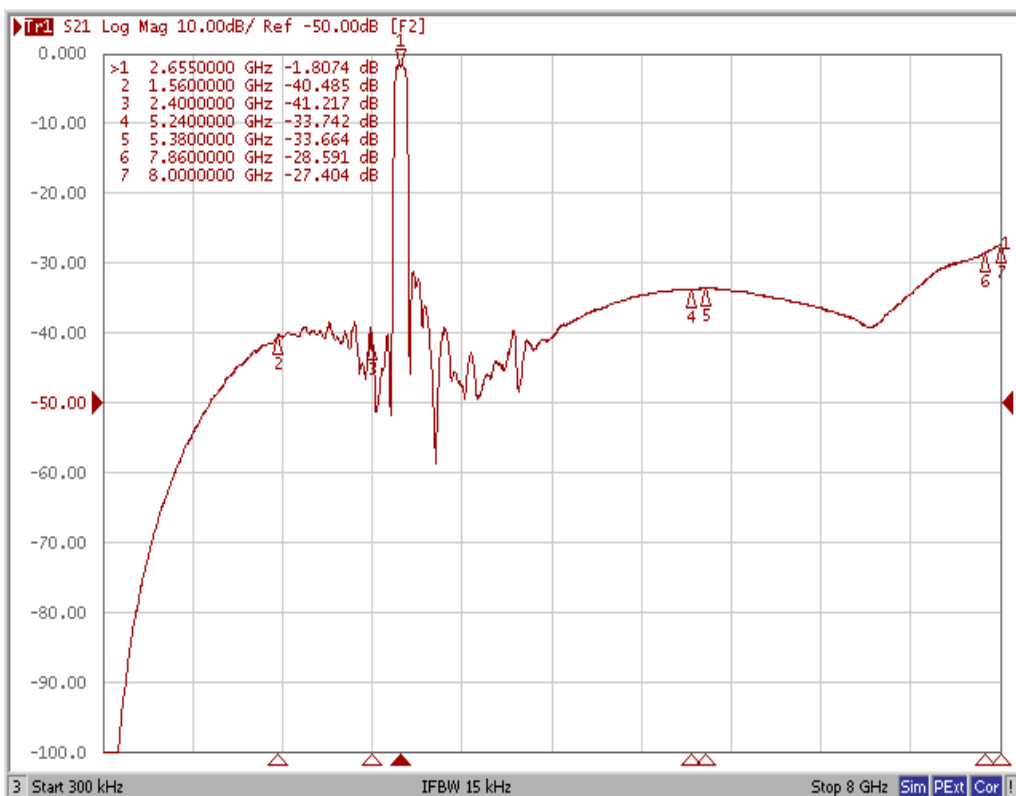
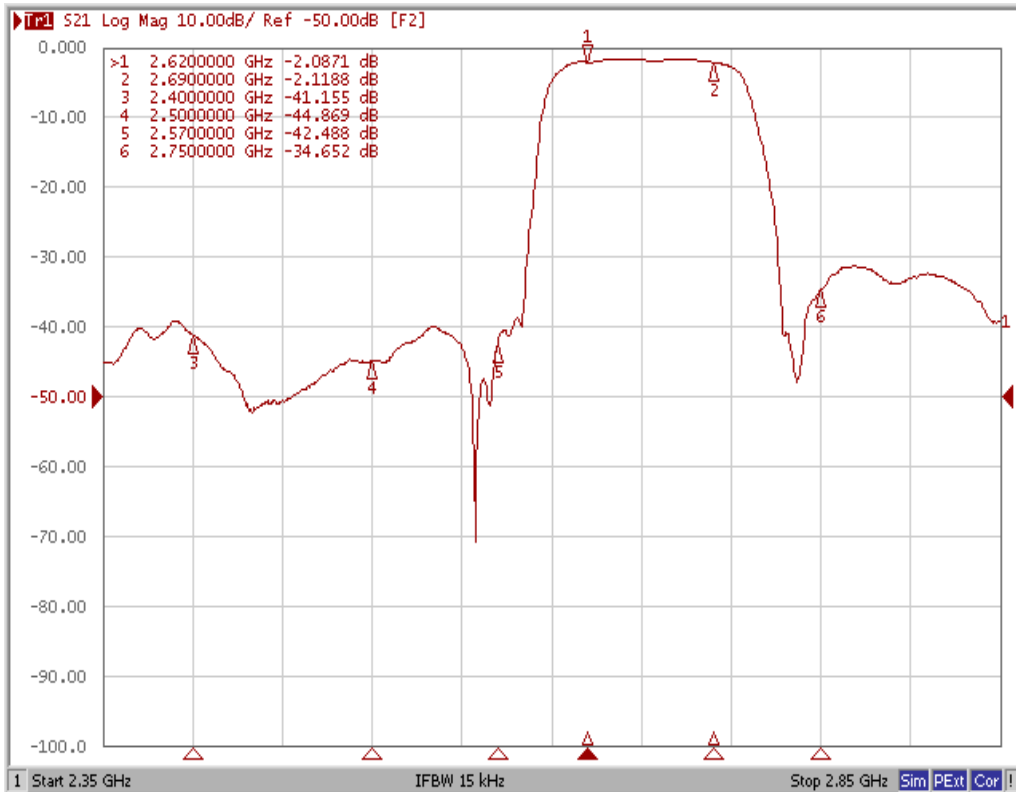
(*1) Specification of insertion loss includes loss that comes from the test board.

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C. FREQUENCY CHARACTERISTICS:

1. Frequency Response



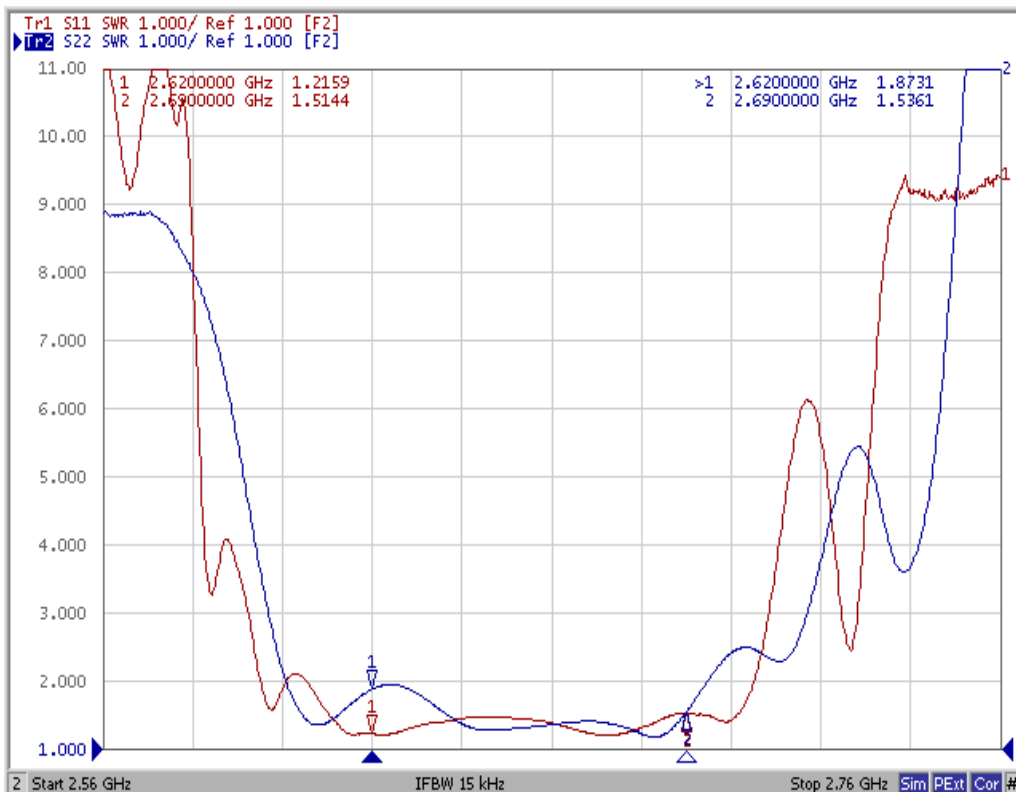
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2. Ripple



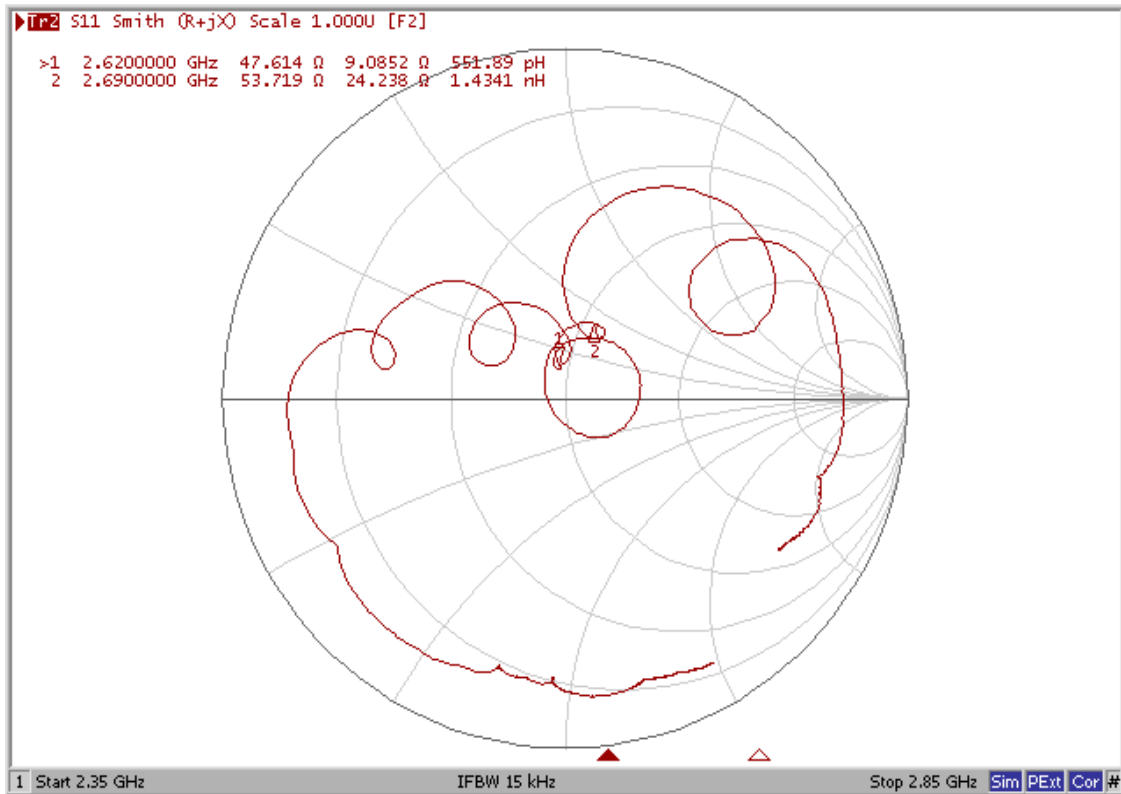
3. VSWR



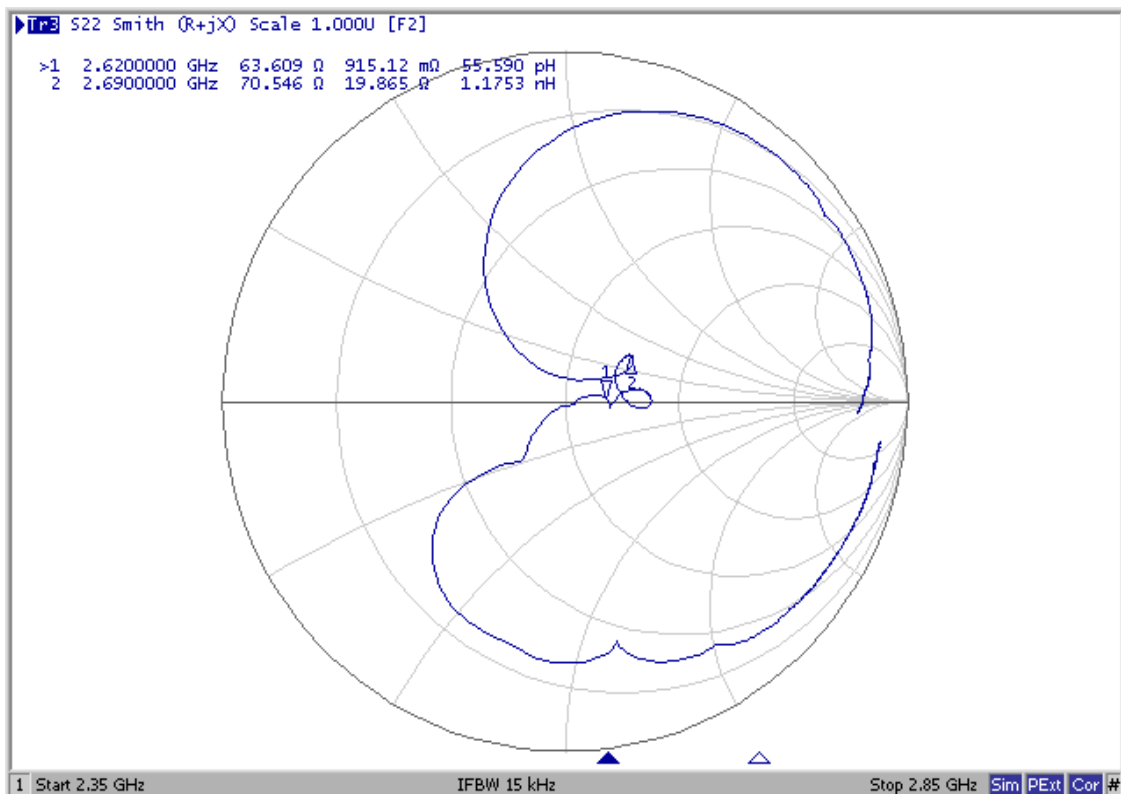
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4. Smith Chart (S11)



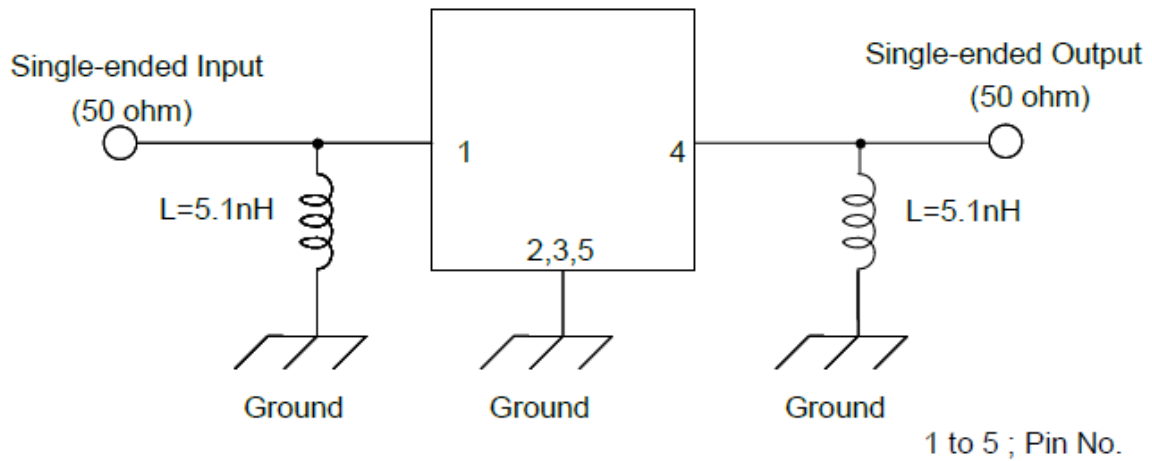
5. Smith Chart (S22)



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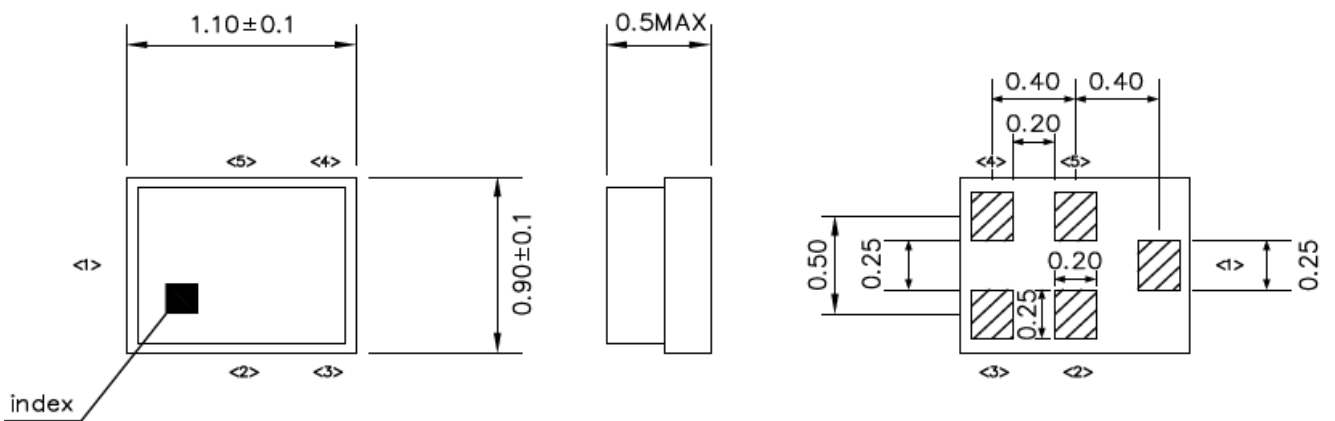
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D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:

Device size: 1.1typ. x 0.9typ. x 0.5max.



Unit : mm

Pin Configuration

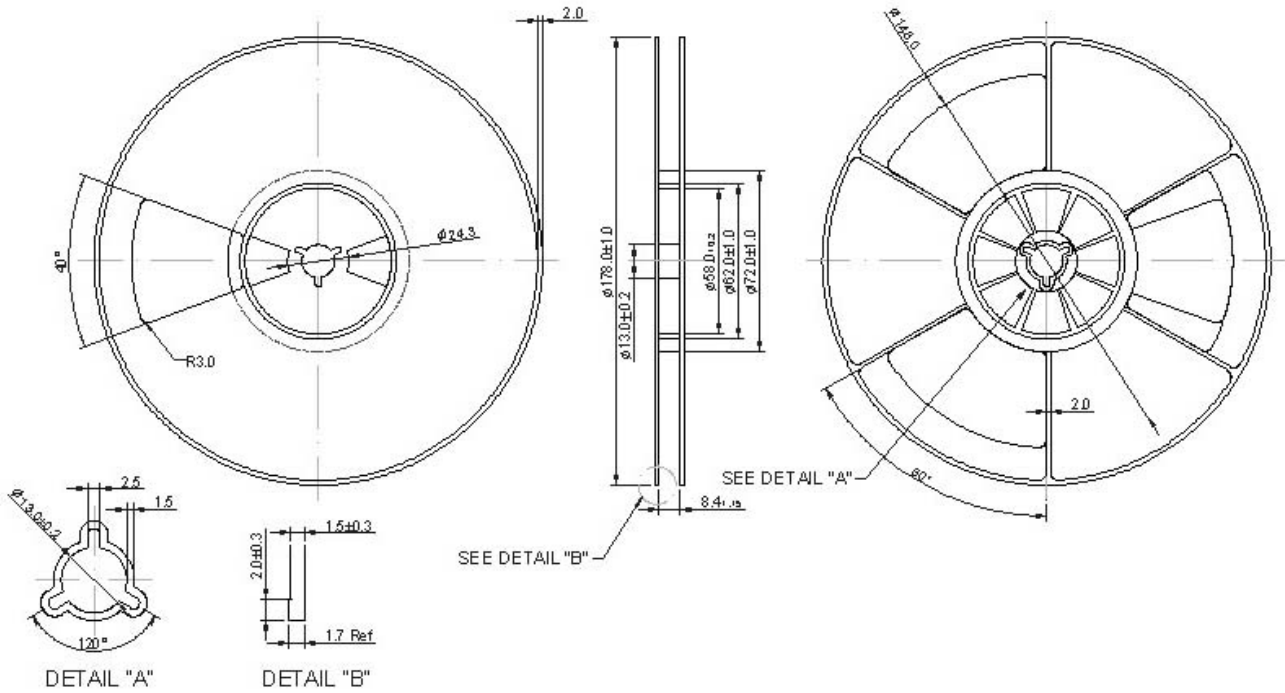
Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	GND	Ground
4	OUT	Single-ended pin
5	GND	Ground

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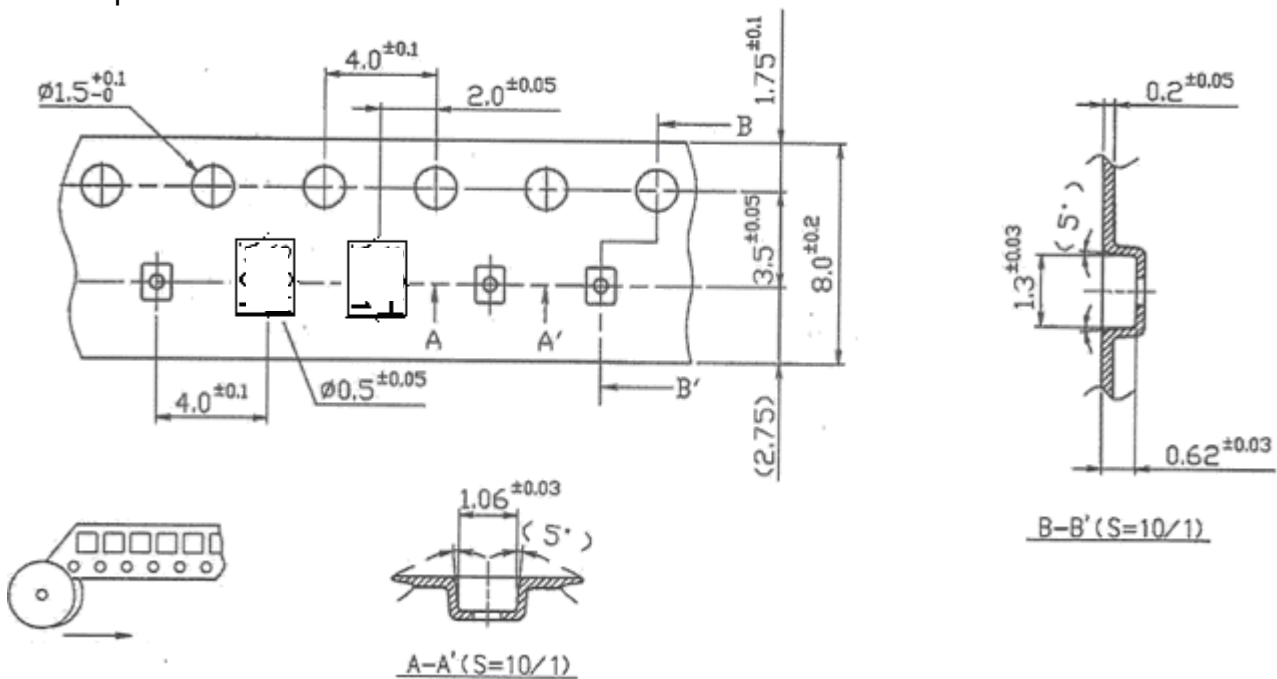
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F. PACKING:

1. Reel Dimension



2. Tape Dimension



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

