

SAW Filter 782.0MHz
Part No: MP08142

Model: TA1693A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Maximum Input Power: 29dBm
2. DC voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1
6. ESD 100V (MM) 200V (HBM)

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: $Z_S = 50\Omega$
2. Terminating load impedance: $Z_L = 50\Omega$

Parameters Description		Unit	Min.	Typ.	Max.	Remarks
Center Frequency (Fc)		MHz	-	782		
Insertion Loss	777.0 ~ 787.0 MHz	dB	-	1.5	2.0	
Amplitude Ripple		dBp-p	-	0.5	1.0	
VSWR		-	-	1.5	2.0	
Attenuation:						
10.0 ~ 716.0MHz		dB	45	60	-	
716.0 ~ 728.0MHz		dB	45	60	-	
728.0 ~ 746.0MHz		dB	45	55	-	
746.0 ~ 756.0MHz		dB	45	55	-	
758.0 ~ 768.0MHz		dB	-	3	-	Not specified
768.0 ~ 775.0MHz		dB	-	1	-	Not specified
793.0 ~ 805.0MHz		dB	-	1	-	Not specified
808.0 ~ 818.0MHz		dB	25	32	-	
869.0 ~ 894.0MHz		dB	45	55	-	
1554.0 ~1565.0MHz		dB	45	60	-	
1565.0 ~ 1585.0MHz		dB	45	60	-	
1597.0 ~ 1607.0MHz		dB	45	60	-	
1805.0 ~ 1880.0MHz		dB	45	60	-	
1930.0 ~ 1990.0MHz		dB	45	55	-	

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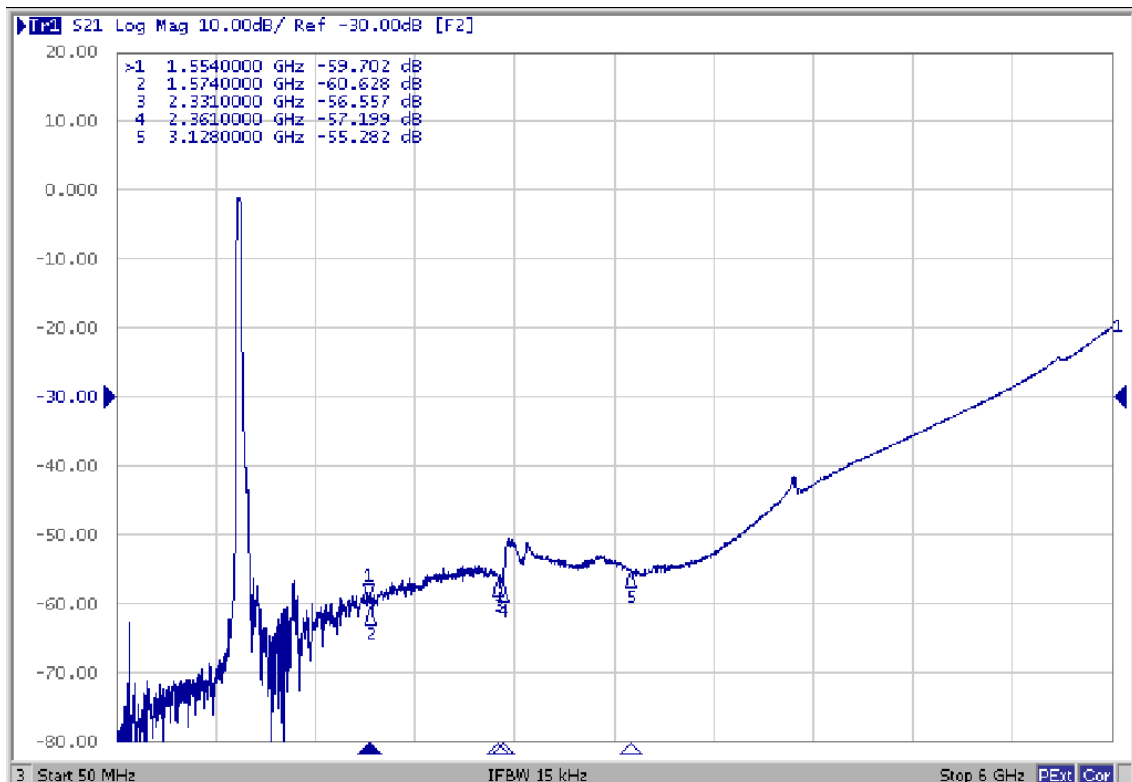
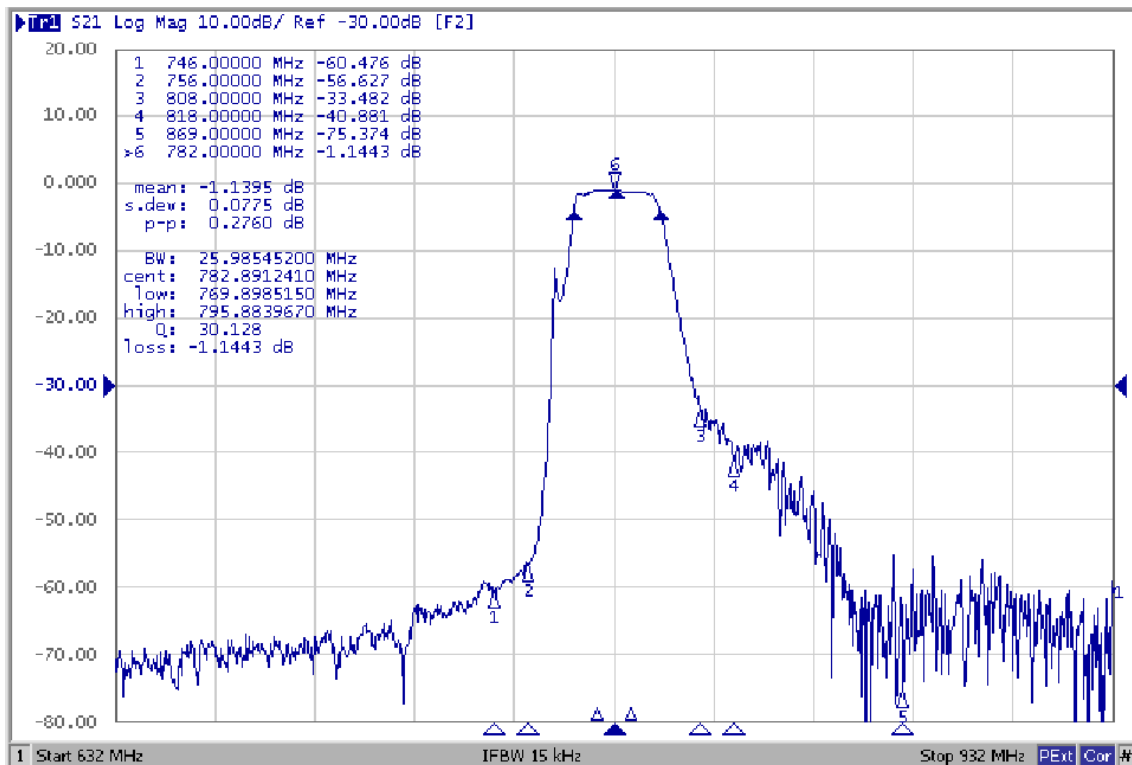
2110.0 ~ 2170.0MHz	dB	35	55	-	
2331.0 ~ 2361.0MHz	dB	45	50	-	
2400.0 ~ 2484.0MHz	dB	35	50	-	
2484.0 ~ 3000.0MHz	dB	30	50	-	
3000.0 ~ 3108.0MHz	dB	20	55	-	
3108.0 ~ 3148.0MHz	dB	20	55	-	
3148.0 ~ 4000.0MHz	dB	20	40	-	
4000.0 ~ 5000.0MHz	dB	15	30	-	
5000.0 ~ 6000.0MHz	dB	5	20	-	

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C. FREQUENCY CHARACTERISTICS:

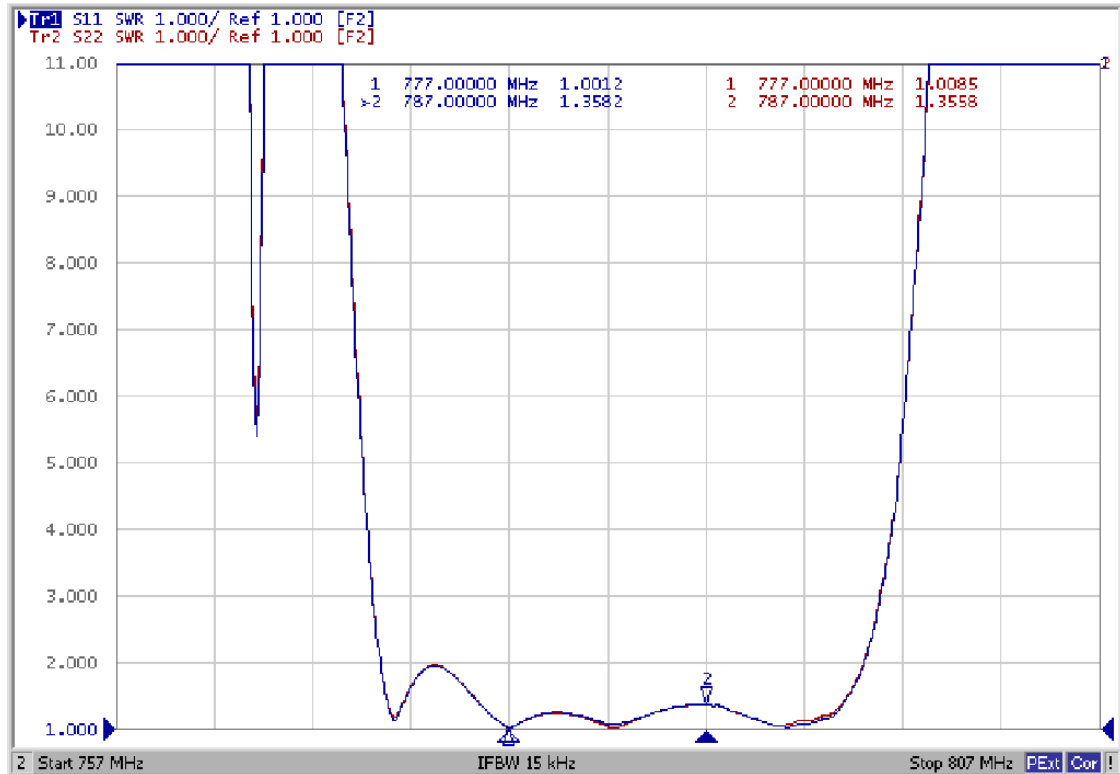
1. Frequency Response



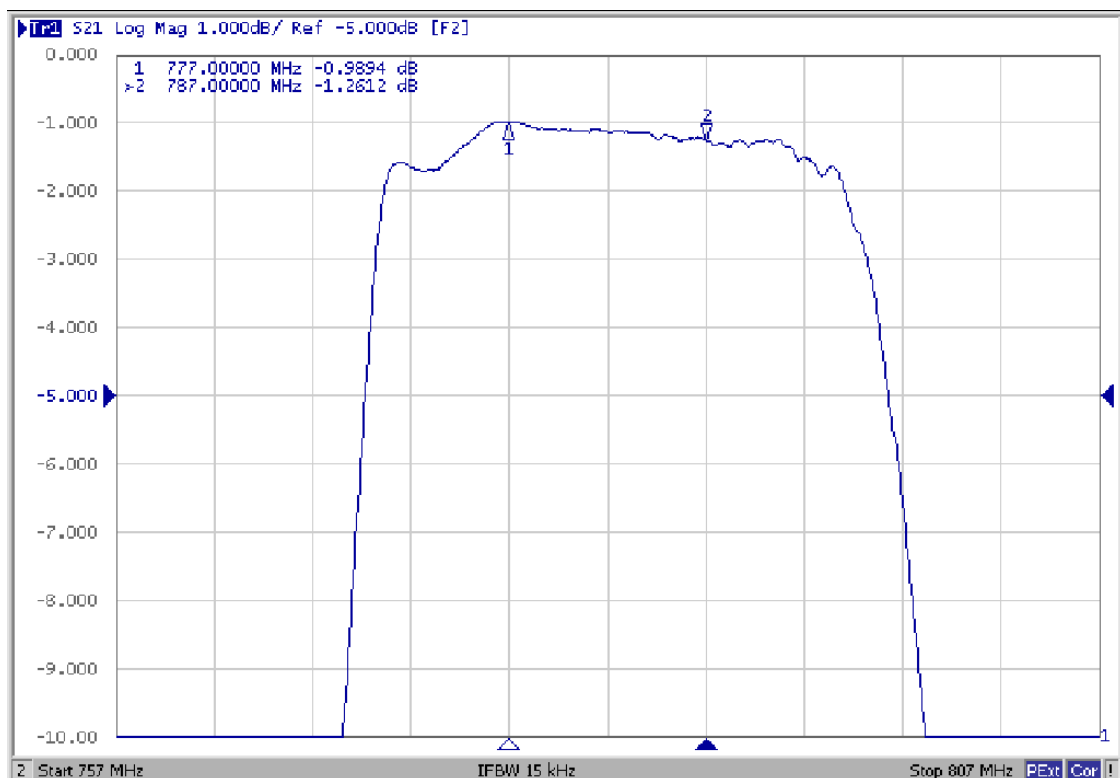
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2. VSWR



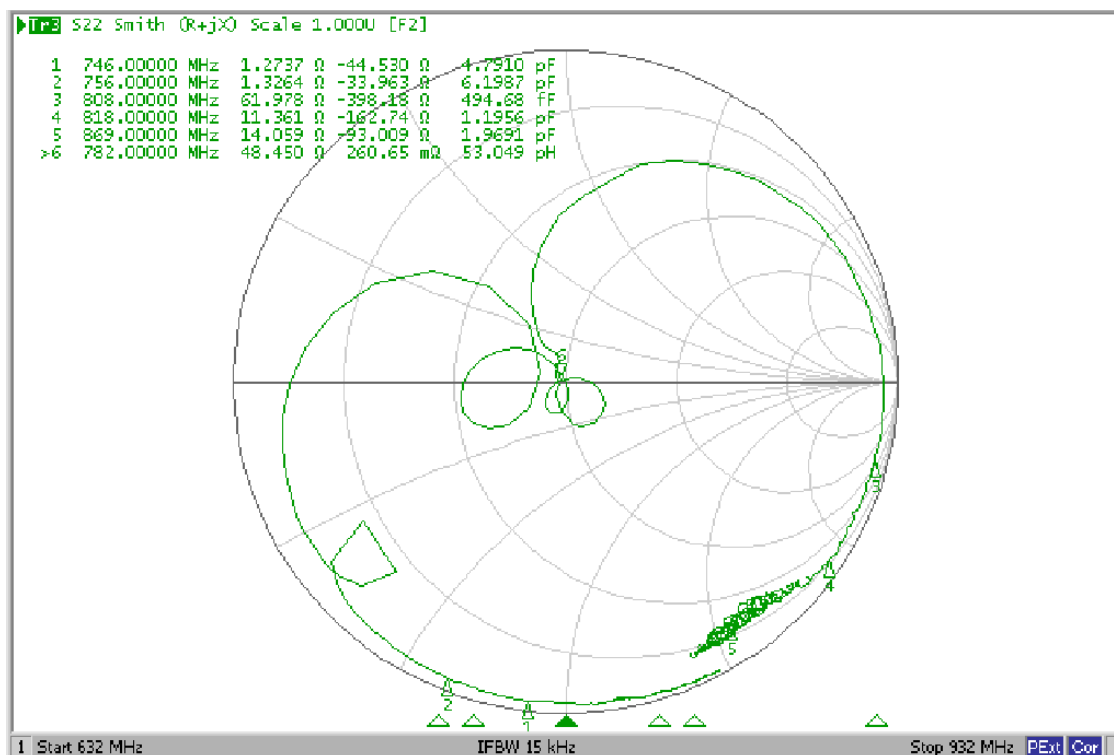
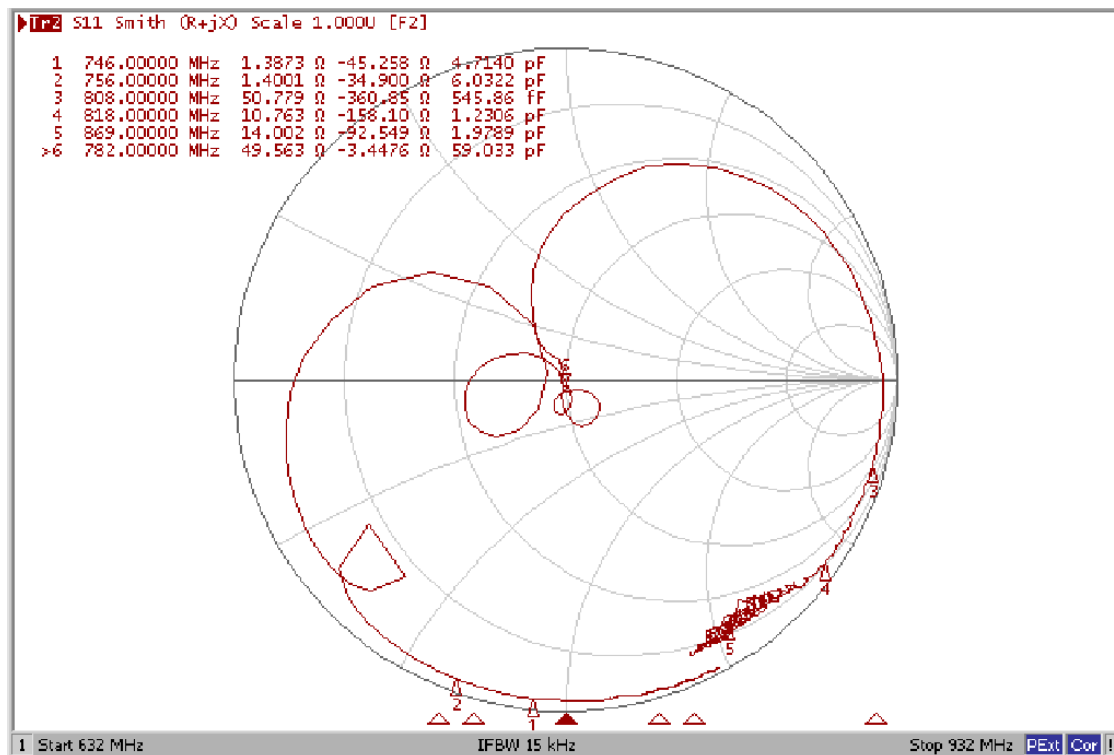
3. Ripple



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4. Smith Chart



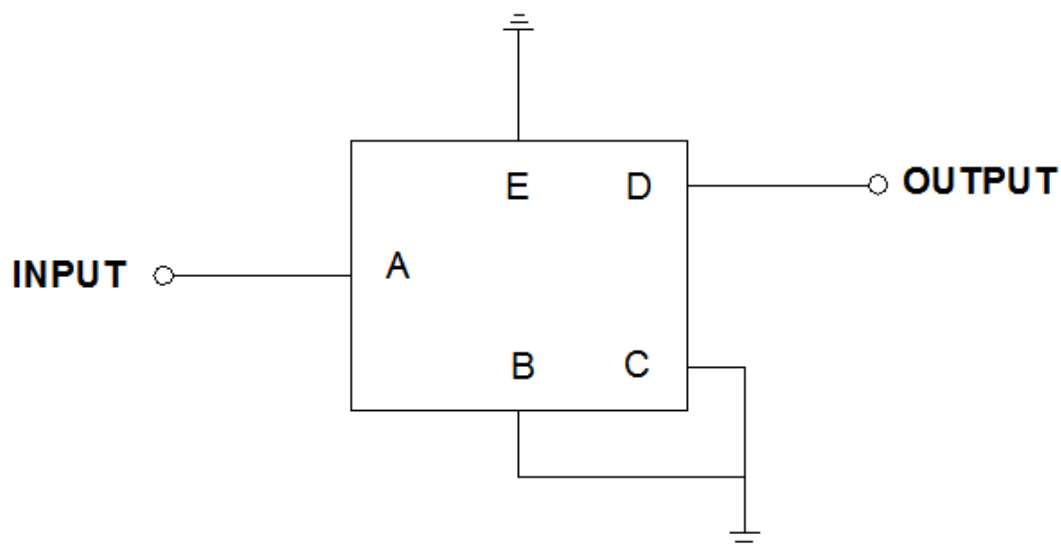
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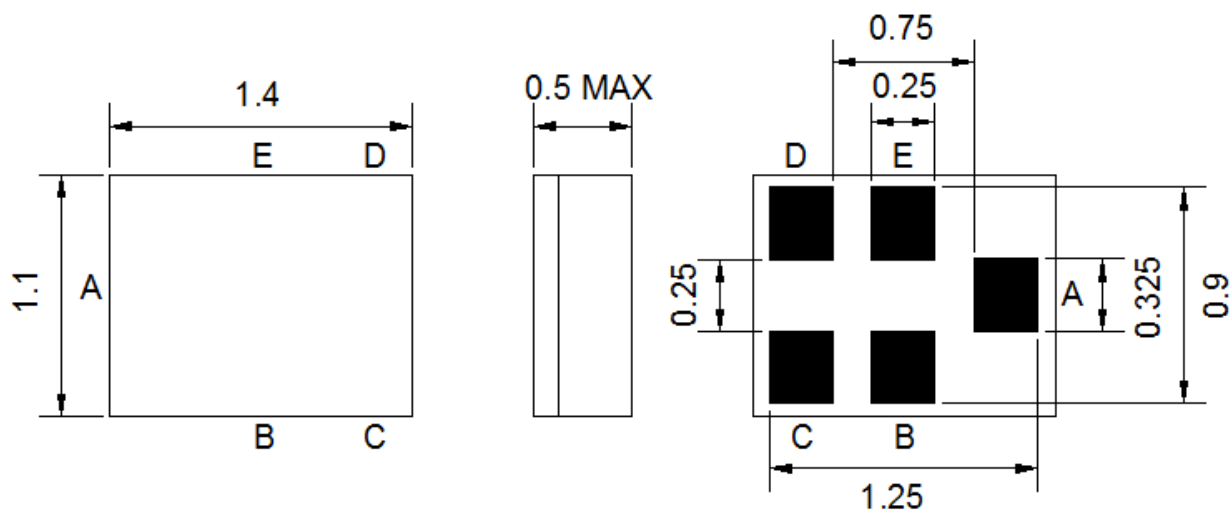
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D. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50Ω

E. OUTLINE DRAWING:



B, C, E: Ground

A: Input

D: Output

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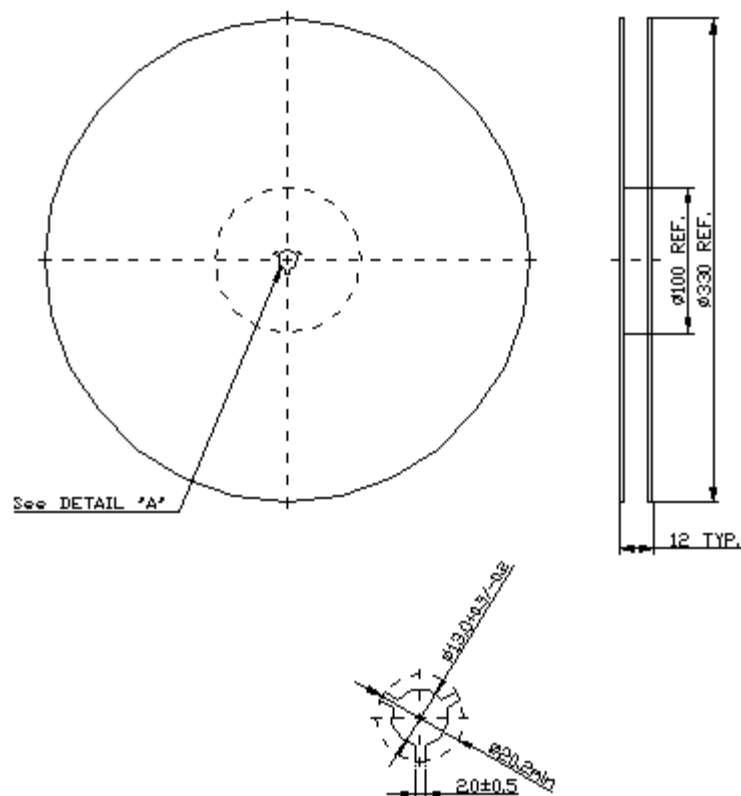
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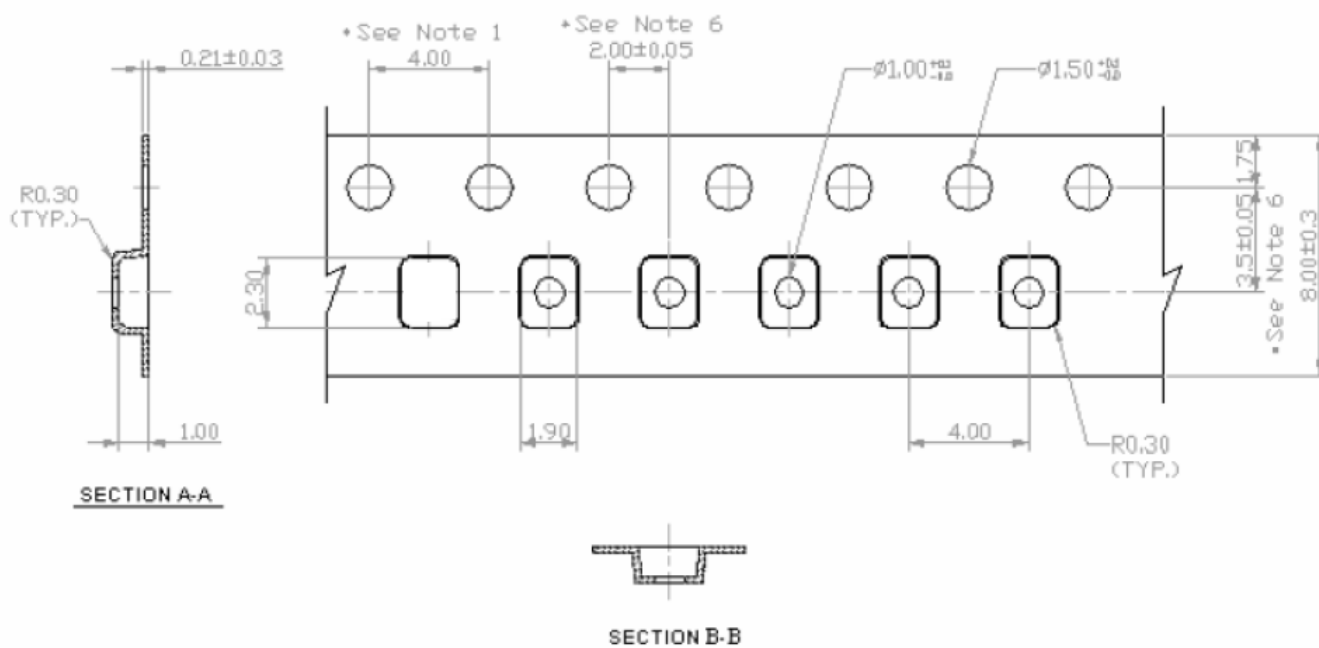
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F. PACKING:

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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

