

SAW Filter 1583.0MHz

Model: TA1343C

Part No: MP08935 (AEC-Q200 compliant)

Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 13dBm
2. DC Voltage: 0V
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:

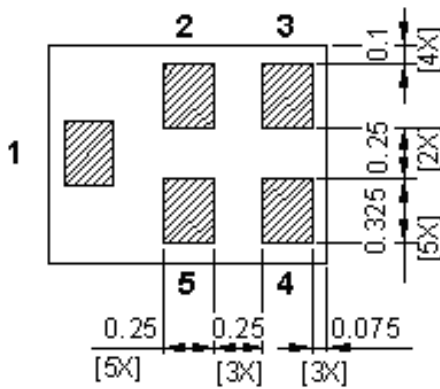
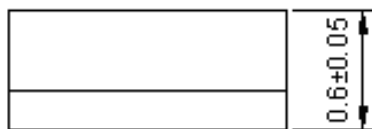
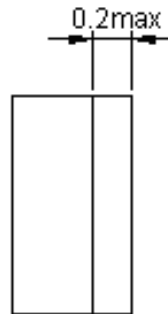
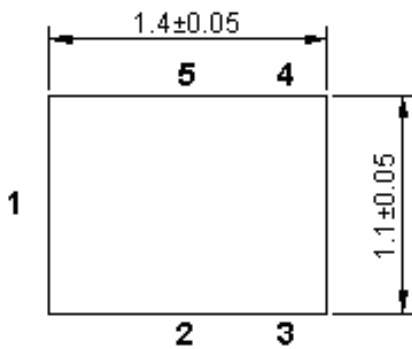
1. Terminating source impedance (single): $Z_s = 50\Omega$
2. Terminating load impedance (single): $Z_L = 50\Omega$

Item	Unit	Min	Typ.	Max	Note
Center Frequency Fc	MHz	-	1583	-	
Insertion Loss (1559.1 ~ 1563.1MHz) IL	dB		1.9	2.1	
Insertion Loss (1573.42 ~ 1577.42MHz) IL	dB		1.3	1.5	
Insertion Loss (1597.55 ~ 1605.89MHz) IL	dB		1.6	2.1	
VSWR (1559.1 ~ 1563.1MHz)			1.5	1.8	
VSWR (1573.42 ~ 1577.42MHz)			1.7	1.9	
VSWR (1597.55 ~ 1605.89MHz)			1.7	1.9	
Group delay ripple					
1559.1 ~ 1563.1MHz)	dB		13	20	
1573.42 ~ 1577.42MHz)	dB		14	20	
1597.55 ~ 1605.89MHz)	dB		14	20	
Amplitude ripple					
1559.1 ~ 1563.1MHz)	dB		0.6	0.8	
1573.42 ~ 1577.42MHz)	dB		0.3	0.5	
1597.55 ~ 1605.89MHz)	dB		0.3	0.6	
Attenuation					
10 ~ 824MHz	dB	23	26		
824 ~ 925MHz	dB	23	26		
1427 ~ 1463MHz	dB	26	31		
1710 ~ 1785MHz	dB	25	30		
1850 ~ 1980MHz	dB	26	30		
2400 ~ 2570MHz	dB	30	33		
2570 ~ 3000MHz	dB	30	35		
Package size	mm	SMD 1.4 x 1.1			

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C. OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified.

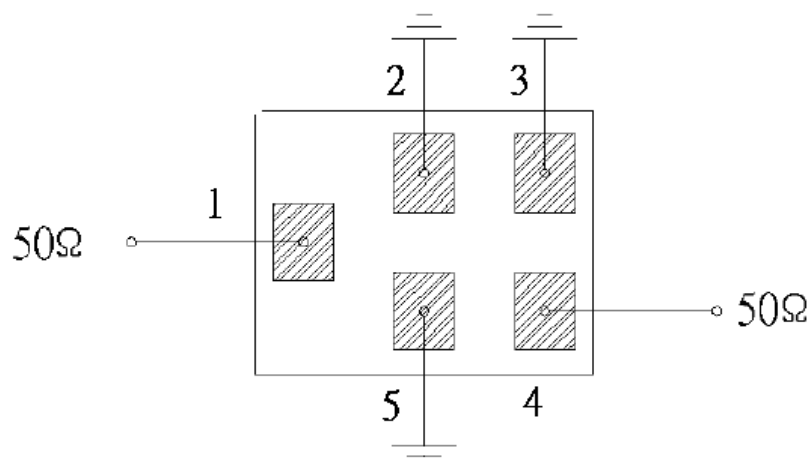
Coplanarity : 0.1 mm max.

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

D. MEASUREMENT CIRCUIT:

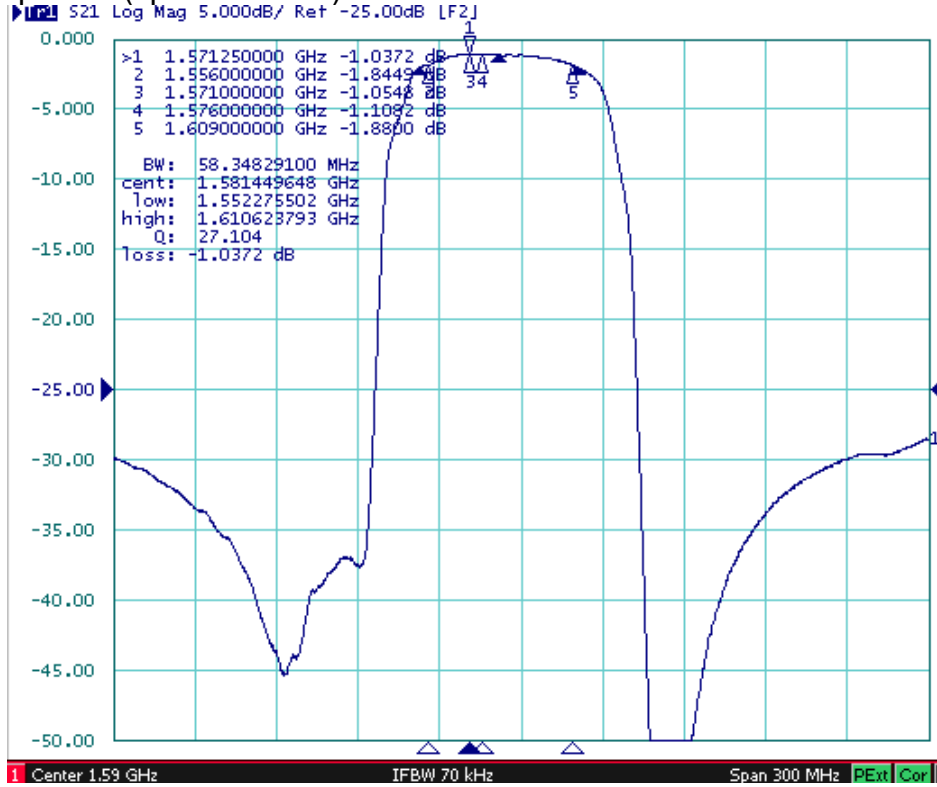


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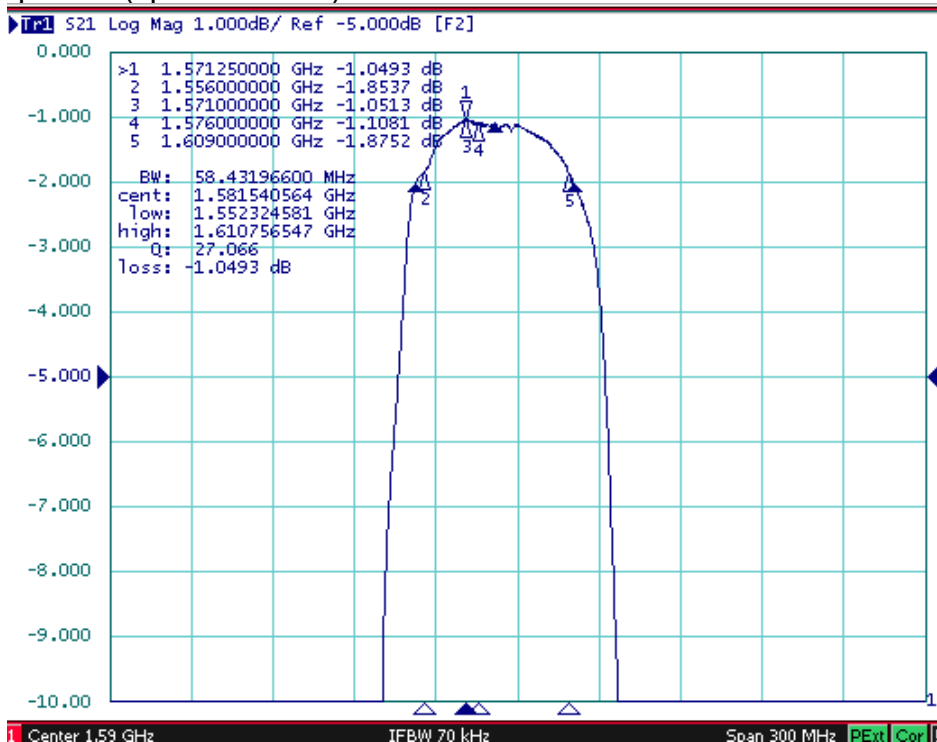
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E. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 300MHz)



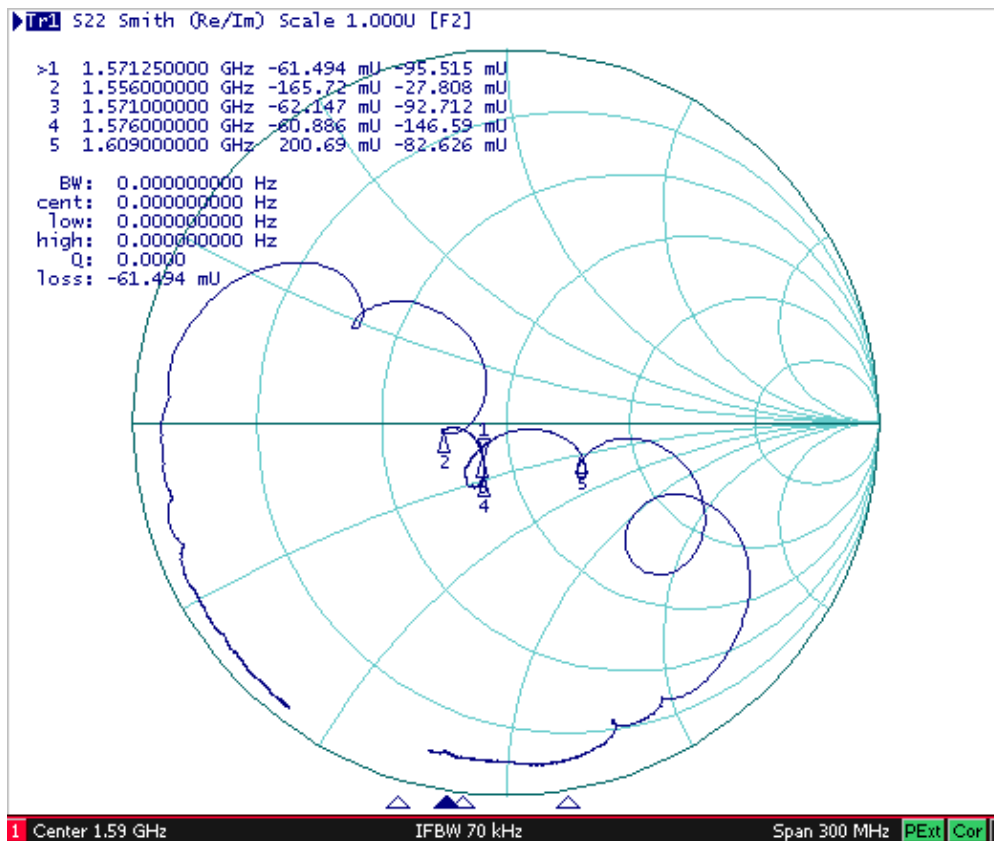
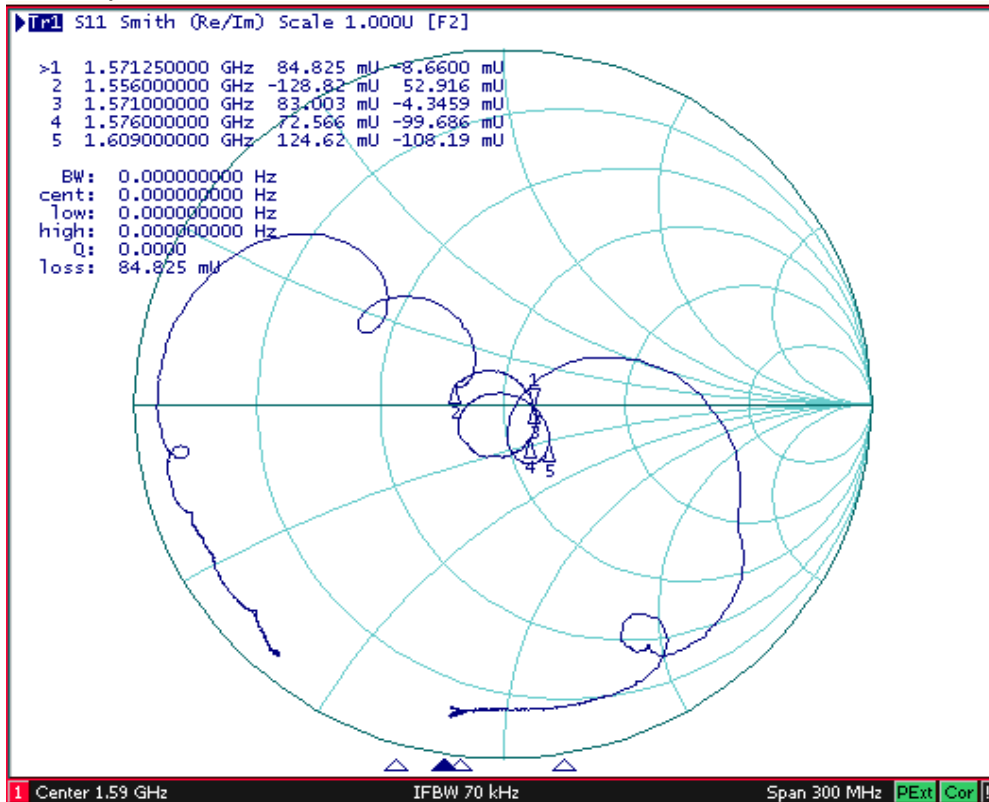
2. S21 response: (span 300MHz)



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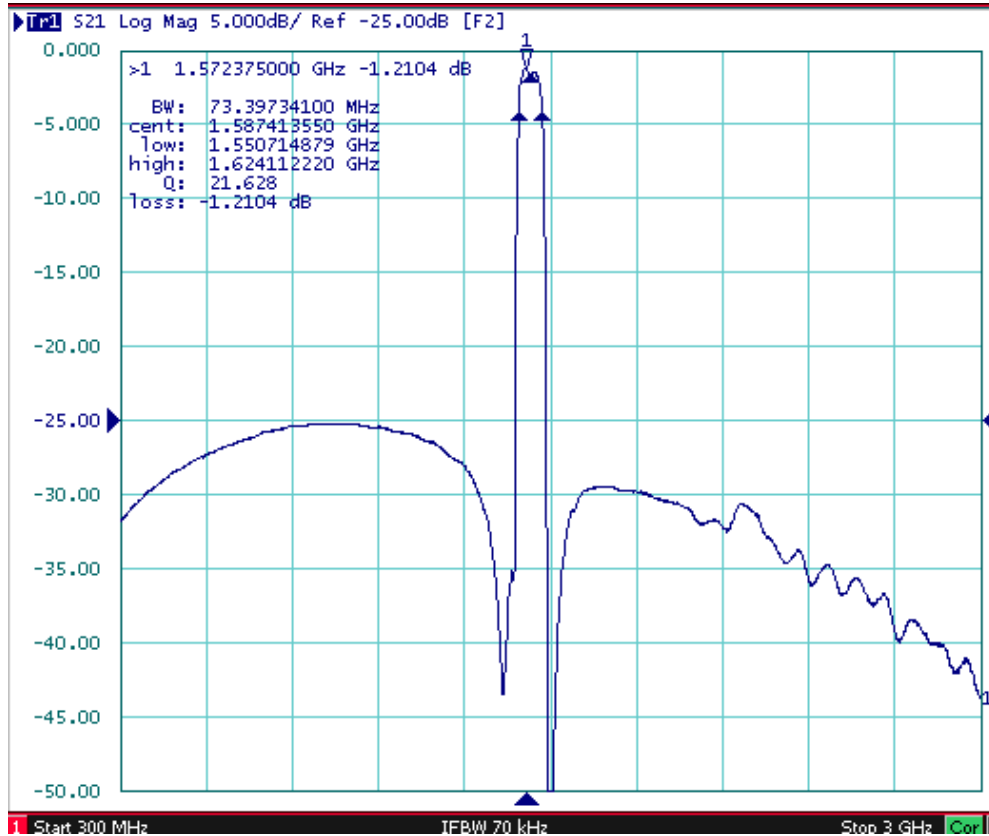
3. S11/S22 response:



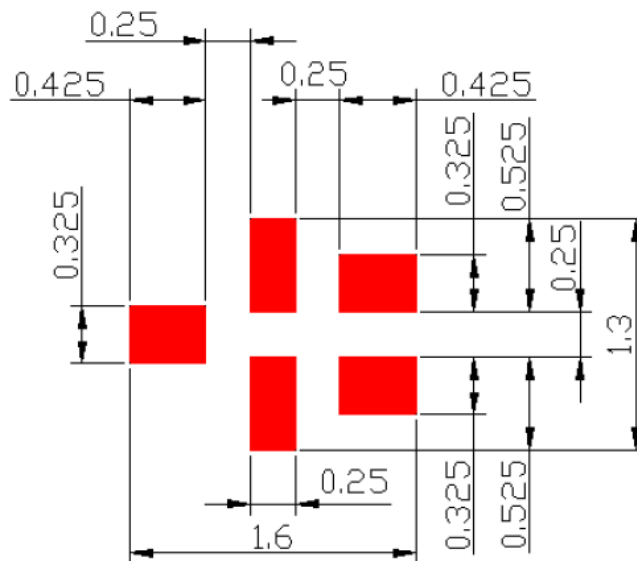
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4. S21 response: (span 3GHz)



F. PCB FOOTPRINT:



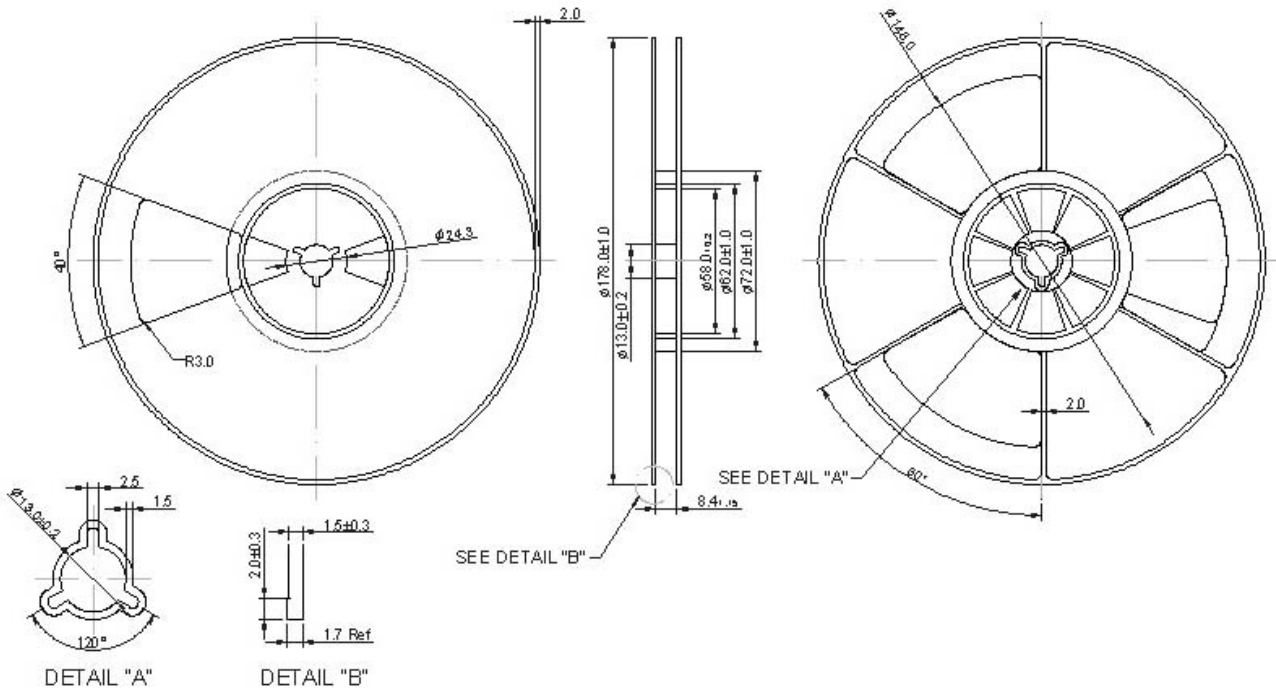
: Land Pattern

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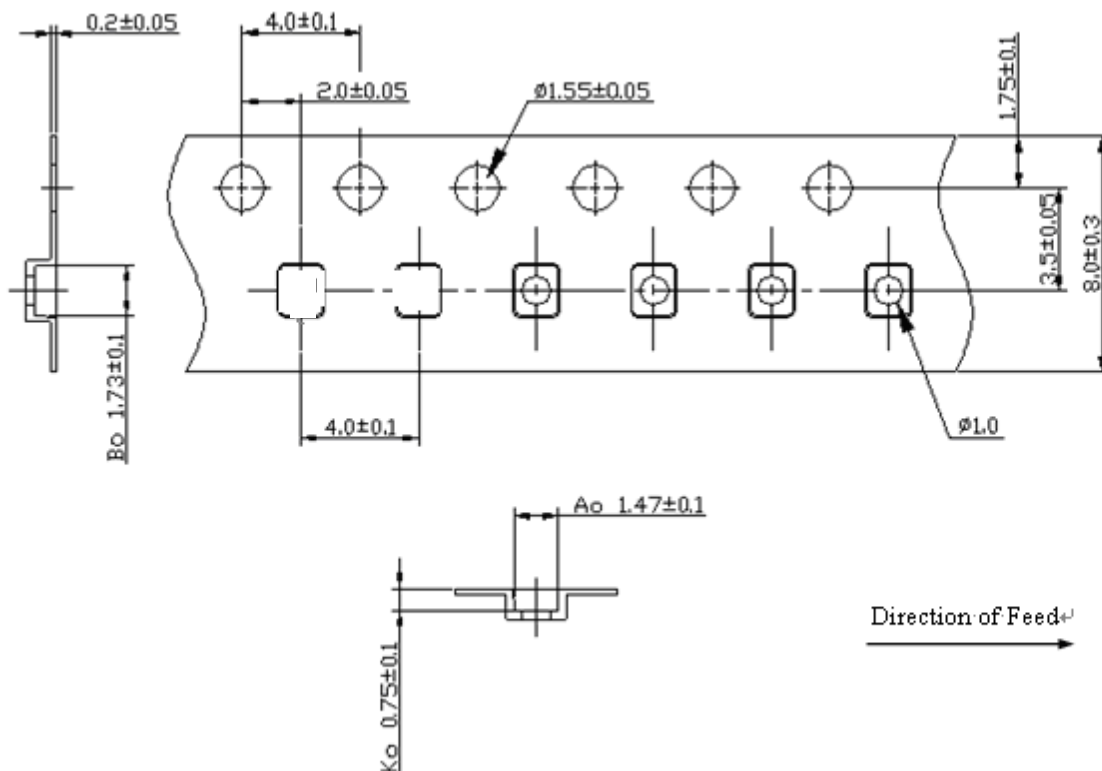
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G. PACKING:

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.

