

SAW Filter 1176.50MHz
Part No: MP09071

Model No: TA2471A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 13dBm (2000h)
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. ESD Machine Mode: 50V
6. ESD Human Body Mode: 100V
7. Moisture Sensitive Level (MSL): Level 2a

B. ELECTRICAL CHARACTERISTICS:

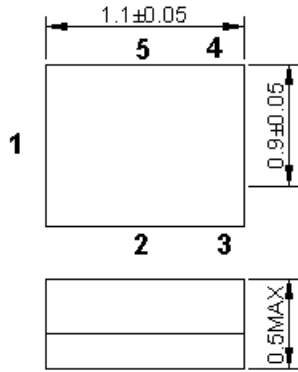
1. Temperature range for specification: Tspec = -20°C to +85°C
2. Terminating source impedance: Z_S = 50Ω
3. Terminating load impedance: Z_L = 50Ω

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	1176.5	-
Insertion Loss (1164 ~ 1189MHz) IL	dB	-	1.8	2.4
Amplitude Ripple (1164 ~ 1189MHz)	dB p-p	-	0.5	1.3
VSWR (1164 ~ 1189MHz)		-	1.8	2.1
Group Delay Deviation (1164 ~ 1189MHz)	ns	-	7	13
Attenuation (refer to 0dB)				
100 ~ 814MHz	dB	53	63	-
814 ~ 849MHz	dB	53	62	-
849 ~ 980MHz	dB	51	57	-
980 ~ 1010MHz	dB	51	56	-
1010 ~ 1100MHz	dB	50	54	-
1100 ~ 1130MHz	dB	40	46	-
1250 ~ 1427MHz	dB	25	50	-
1427 ~ 1463MHz	dB	45	50	-
1710 ~ 2025MHz	dB	40	45	-
2300 ~ 2690MHz	dB	38	42	-
2690 ~ 3000MHz	dB	37	42	-
3000 ~ 6000MHz	dB	17	22	-
Temperature Coefficient	ppm/K	-	-36	-

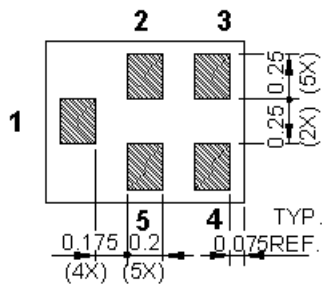
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C. OUTLINE DRAWING:

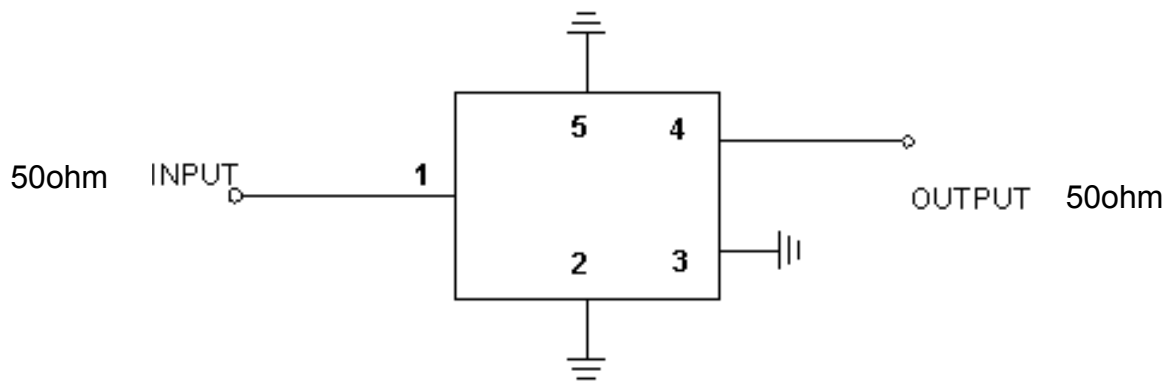


All tolerances are +/-0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

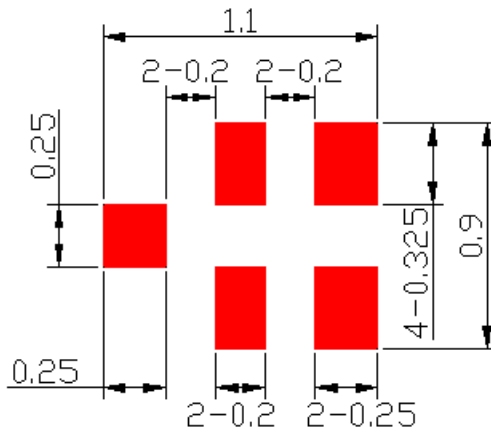


1: Input
 4: Output
 2, 3, 5: Ground

D. MEASUREMENT CIRCUIT:



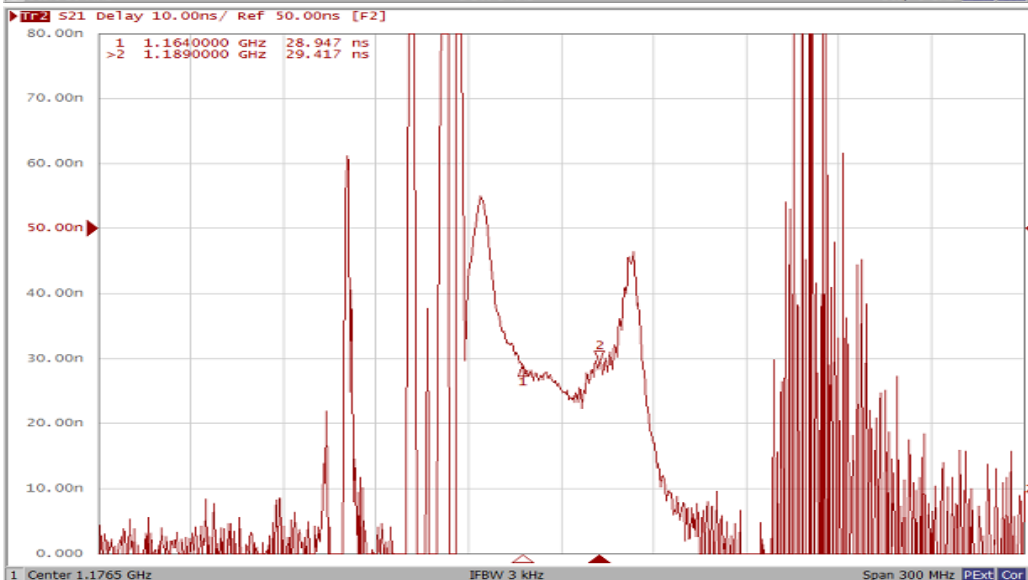
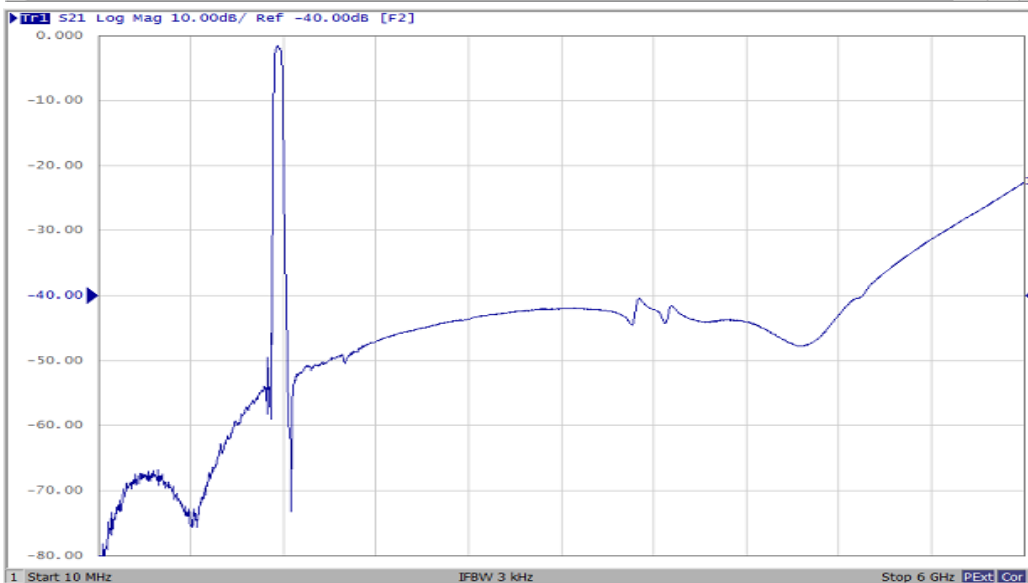
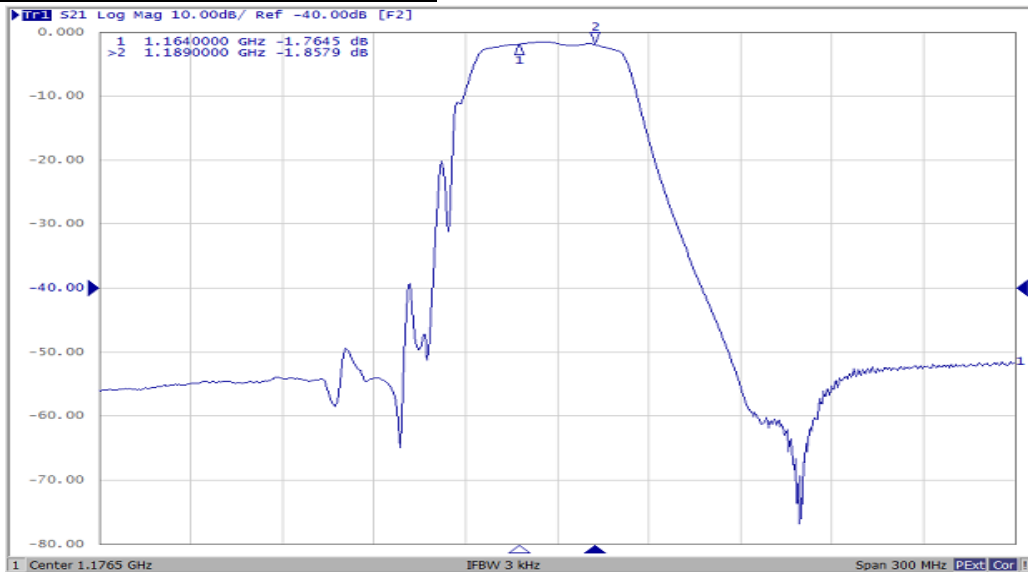
E. PCB FOOTPRINT:



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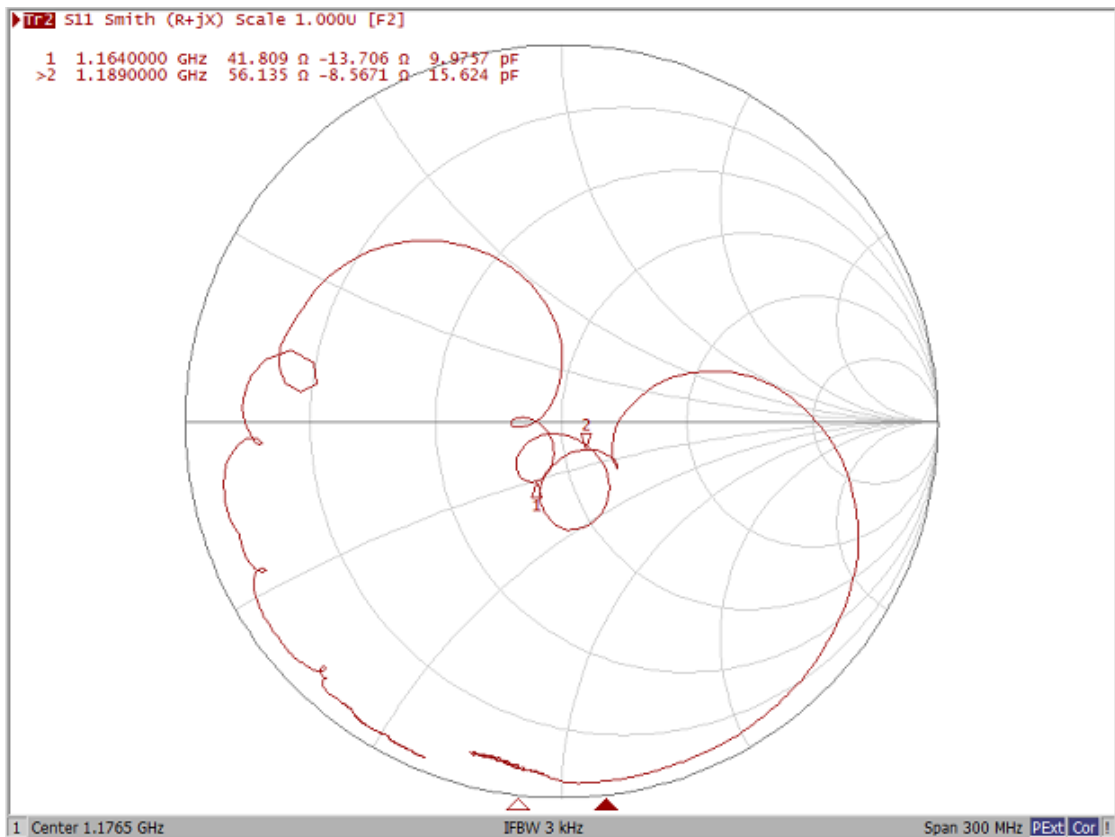
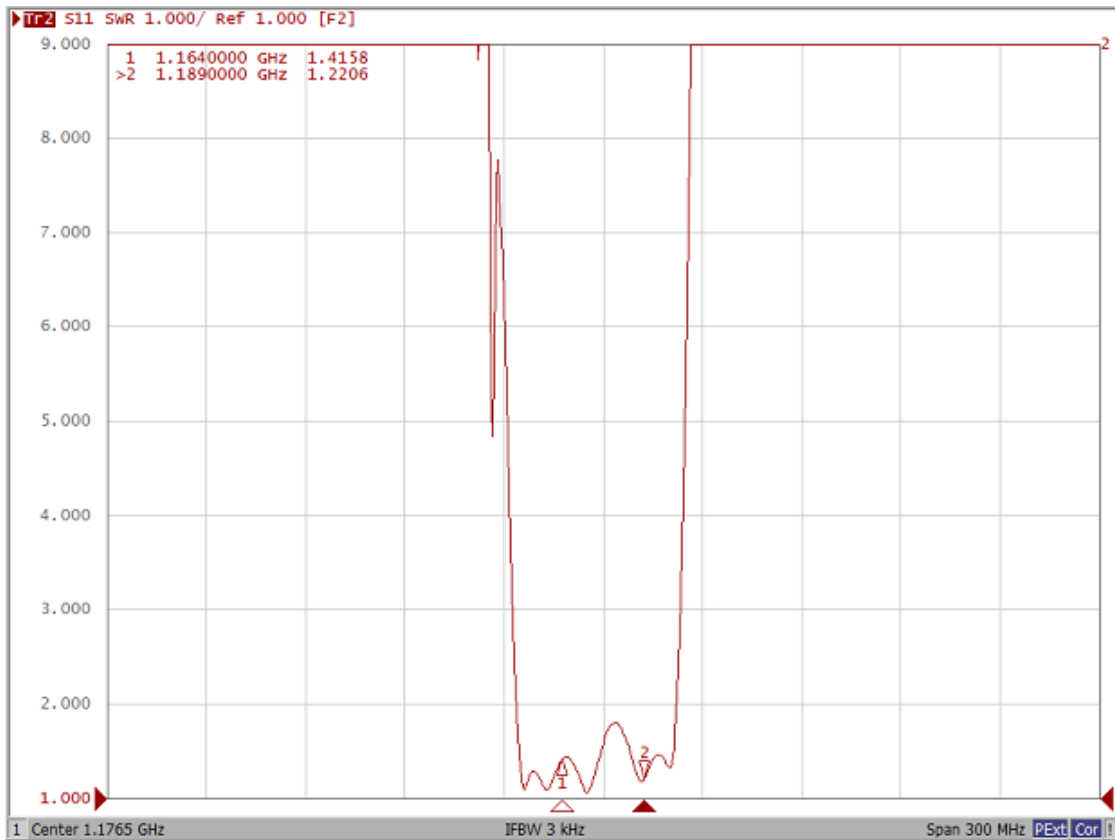
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F. FREQUENCY CHARACTERISTICS:



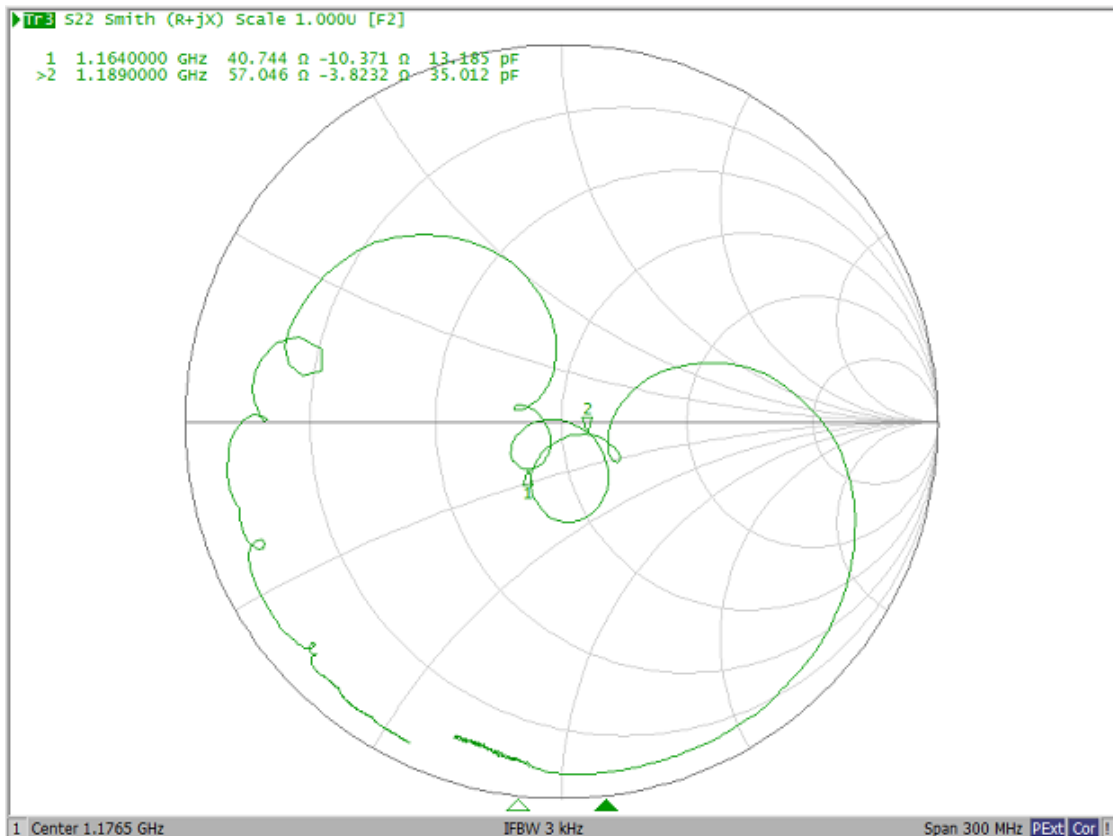
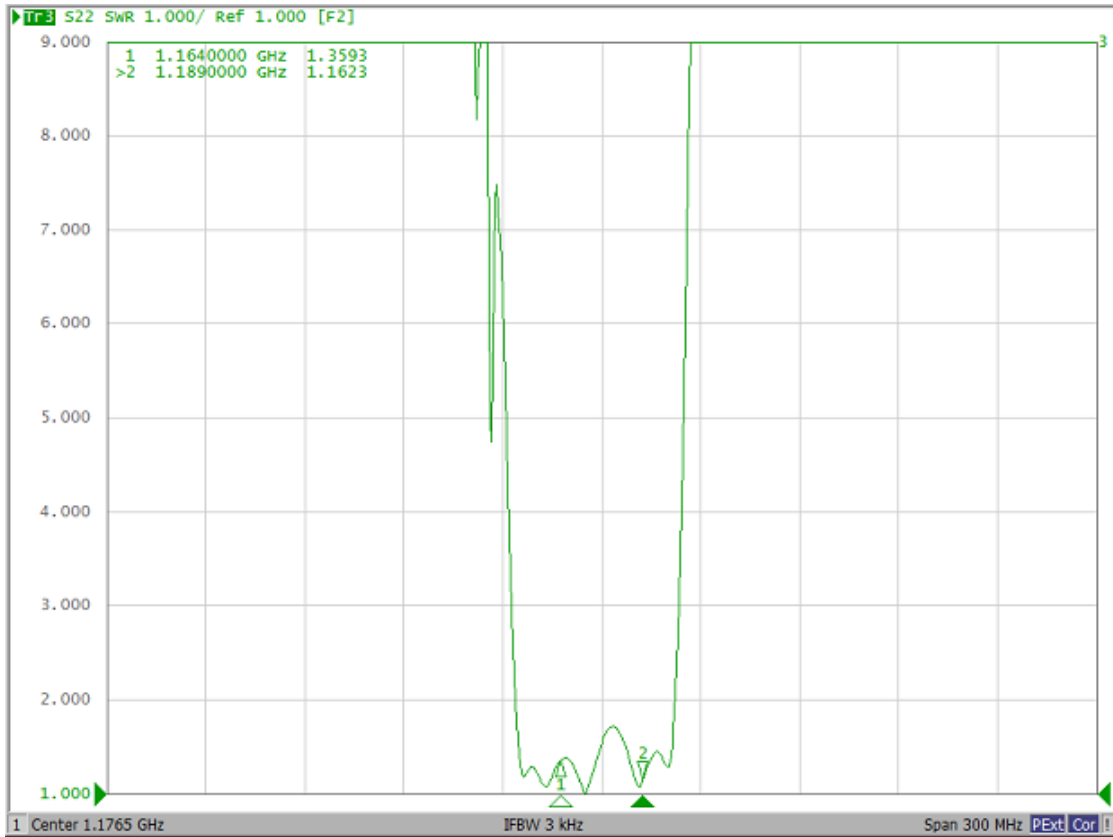
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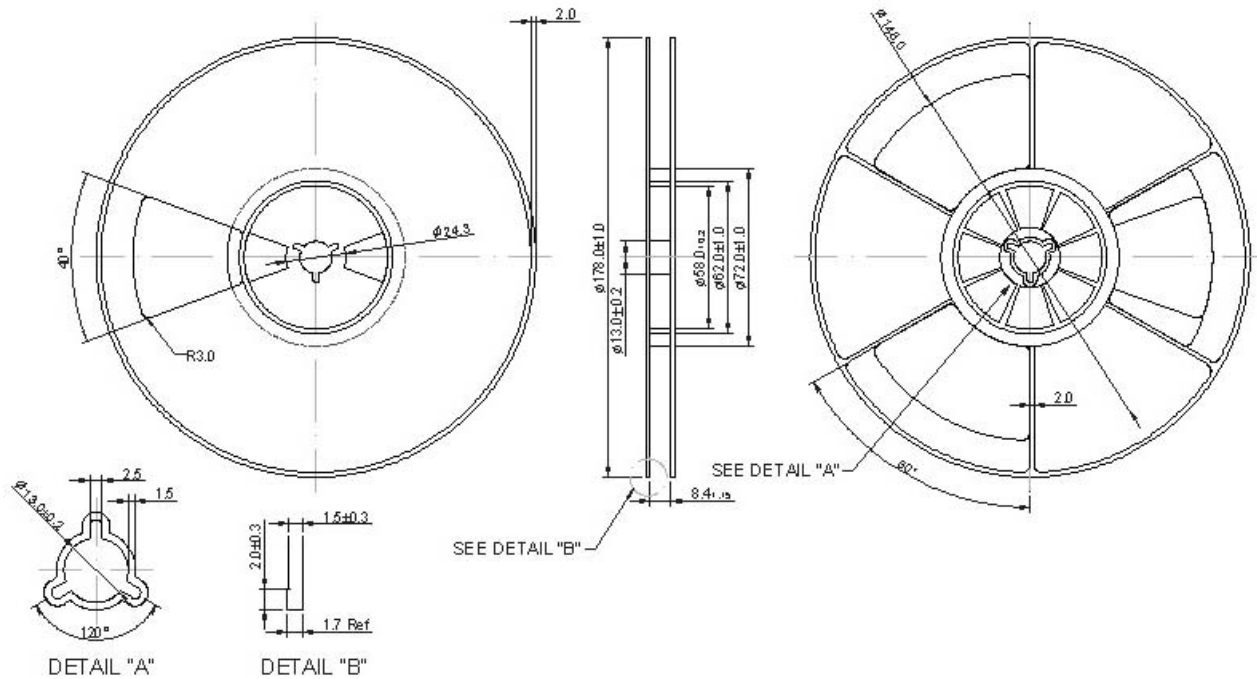


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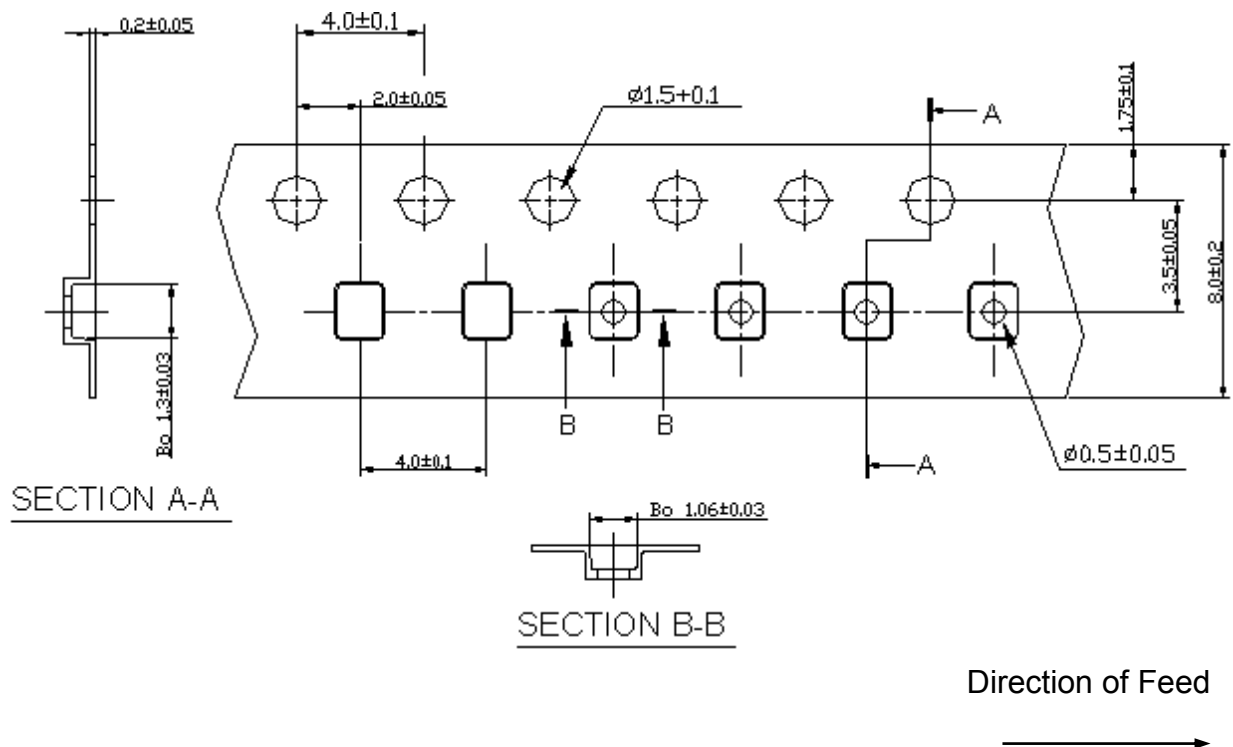
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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

