

SAW Filter 897.50MHz
Part No: MP07849

Model: TA1814A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 13dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 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.
Center Frequency (Fc)	MHz	-	897.5	-
Insertion Loss within 880.4 ~ 914.6MHz	dB	-	2.3	2.8
Amplitude Ripple within 880.4 ~ 914.6MHz	dB p-p	-	0.8	1.6
VSWR within 880.4 ~ 914.6MHz	-	-	2.1	2.5
Attenuation:				
DC ~ 860.0MHz	dB	30	50	-
860.0 ~ 870.0MHz	dB	20	28	-
925.4 ~ 935.0MHz	dB	10	18	-
935.0 ~ 959.4MHz	dB	24	28	-
1760.0 ~ 1830.0MHz	dB	34	44	-
2640.0 ~ 2745.0MHz	dB	30	39	-

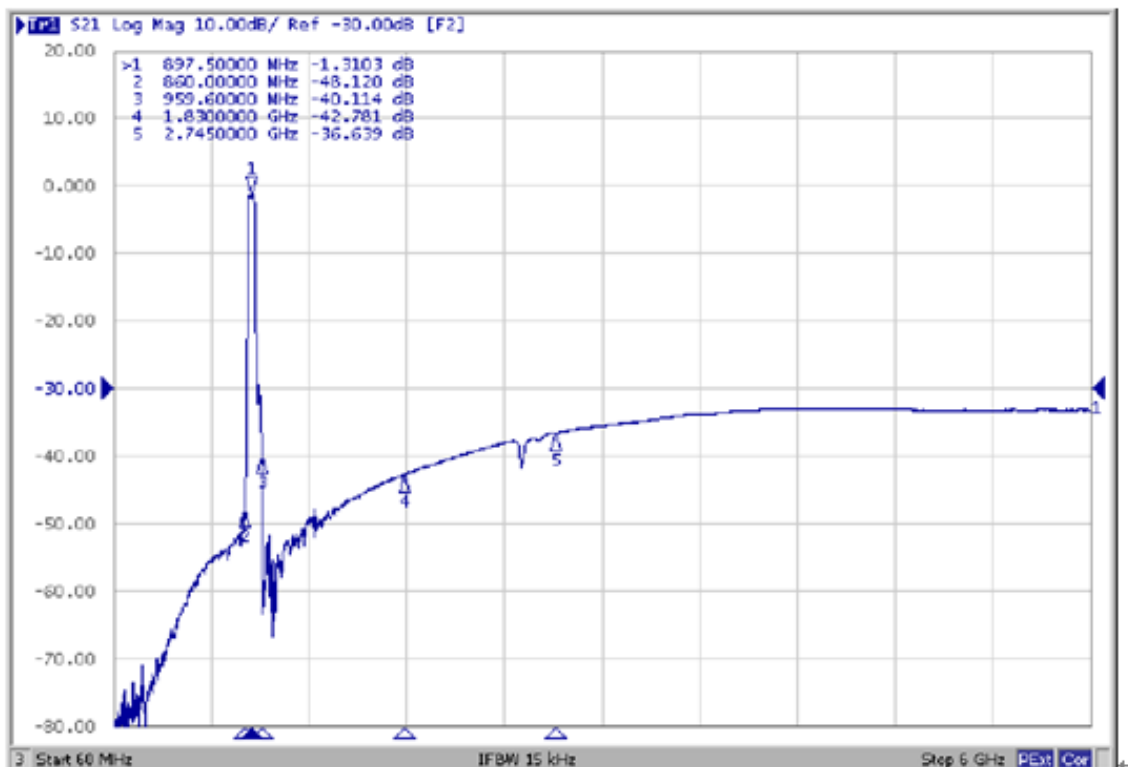
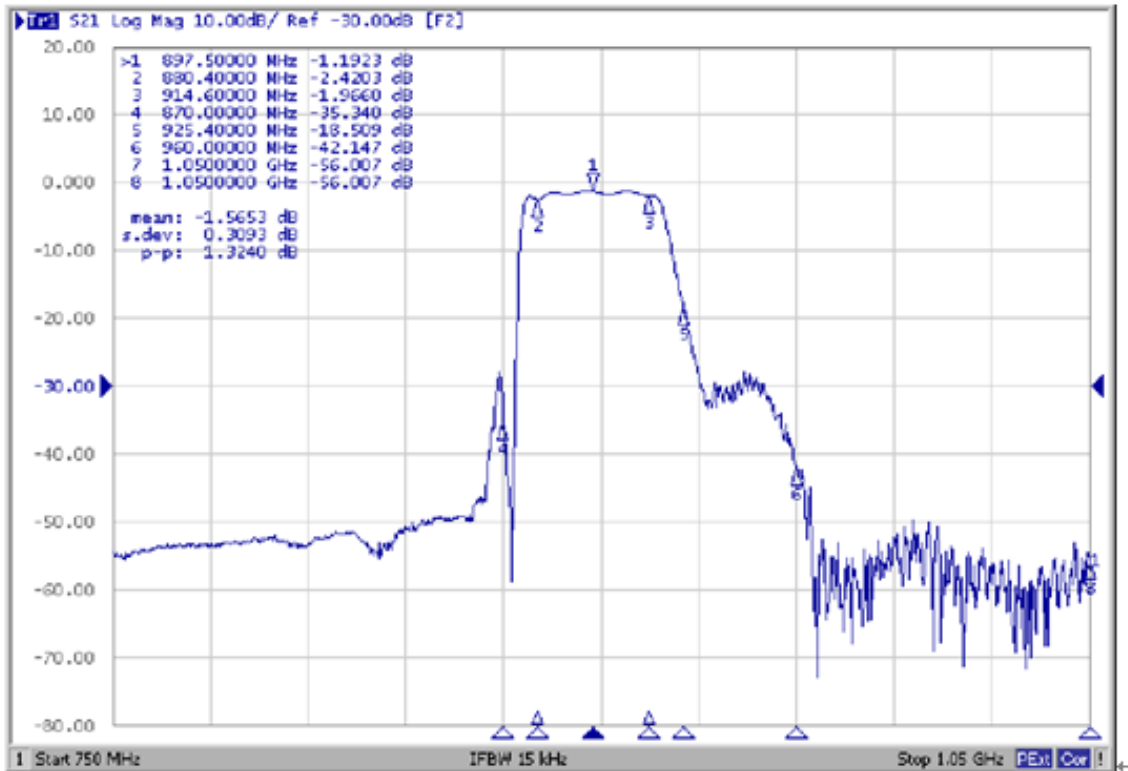
Note: No Matching Network.

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C. FREQUENCY CHARACTERISTICS:

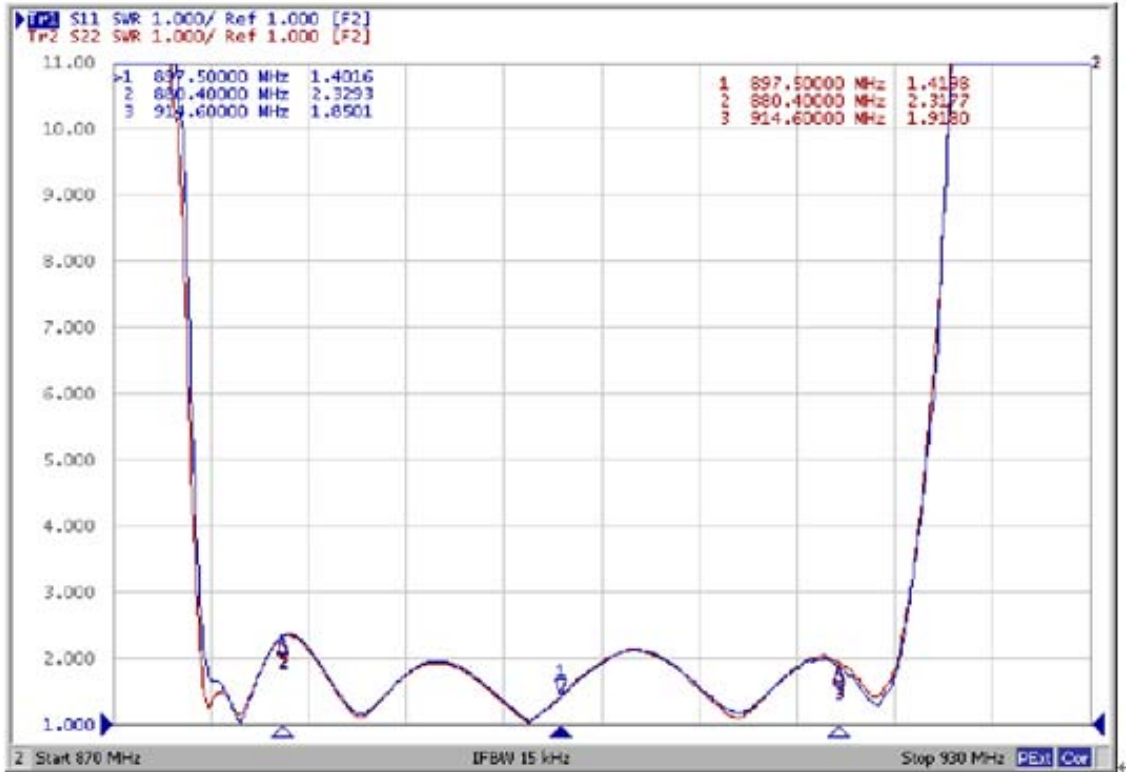
1. Frequency Response



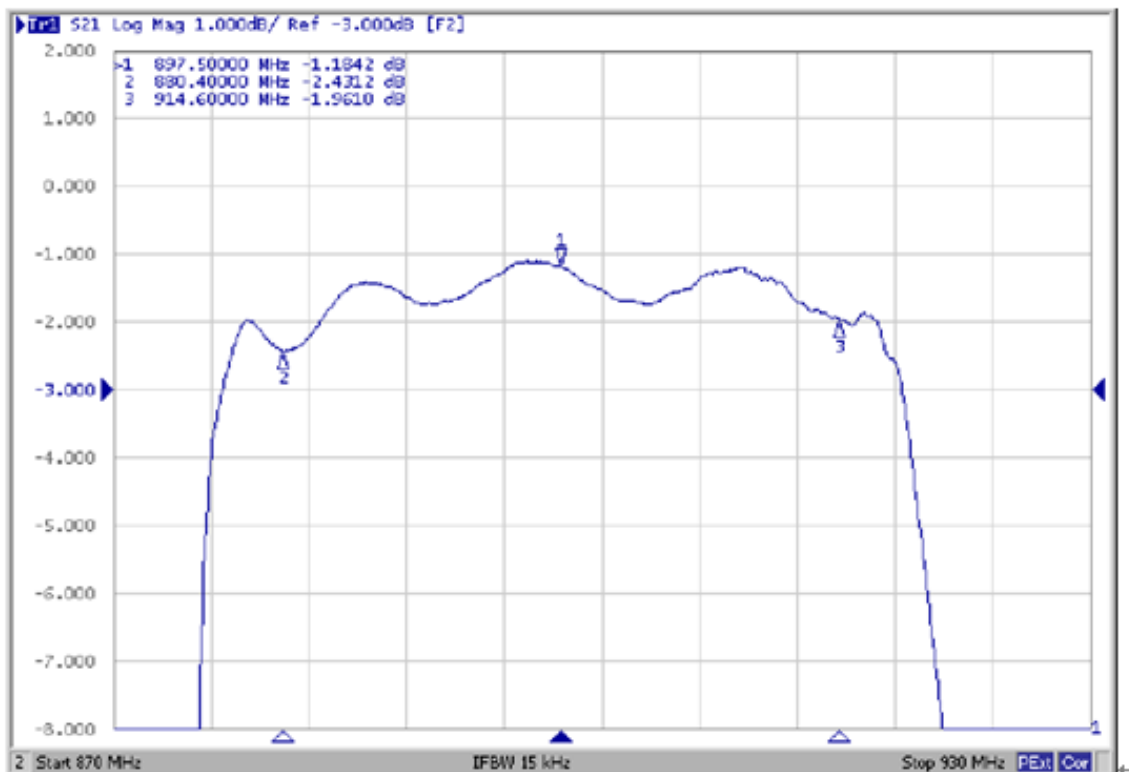
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2. VSWR



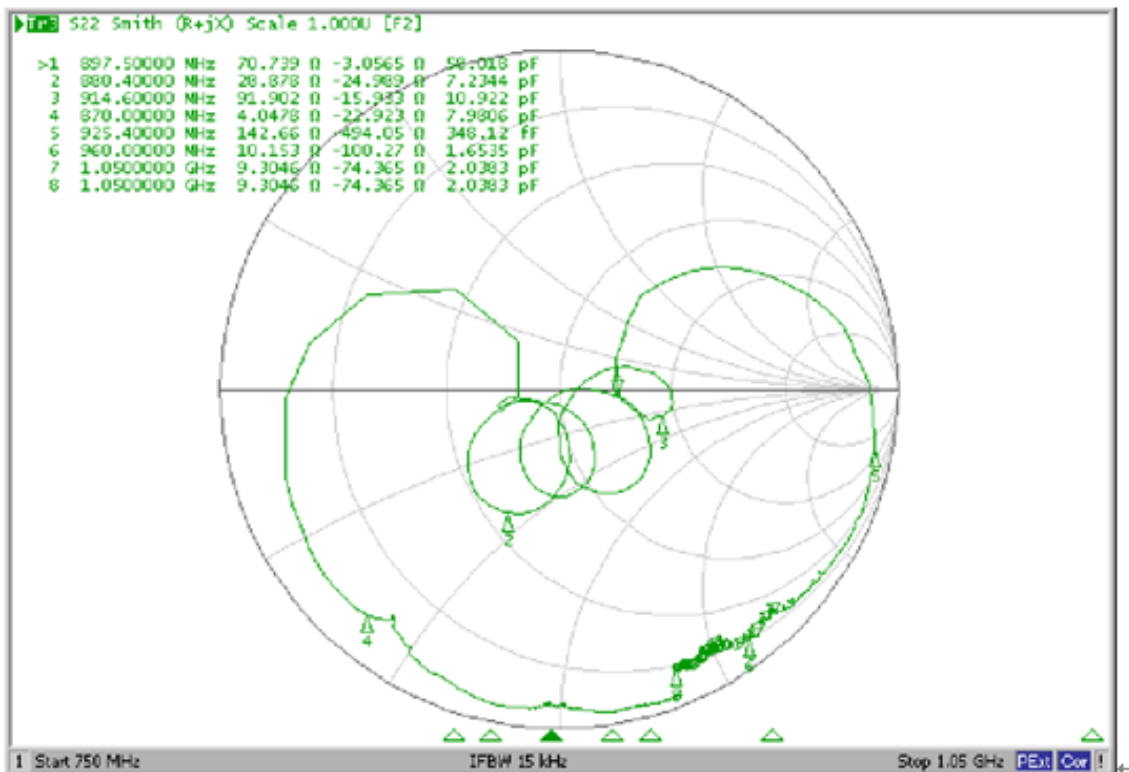
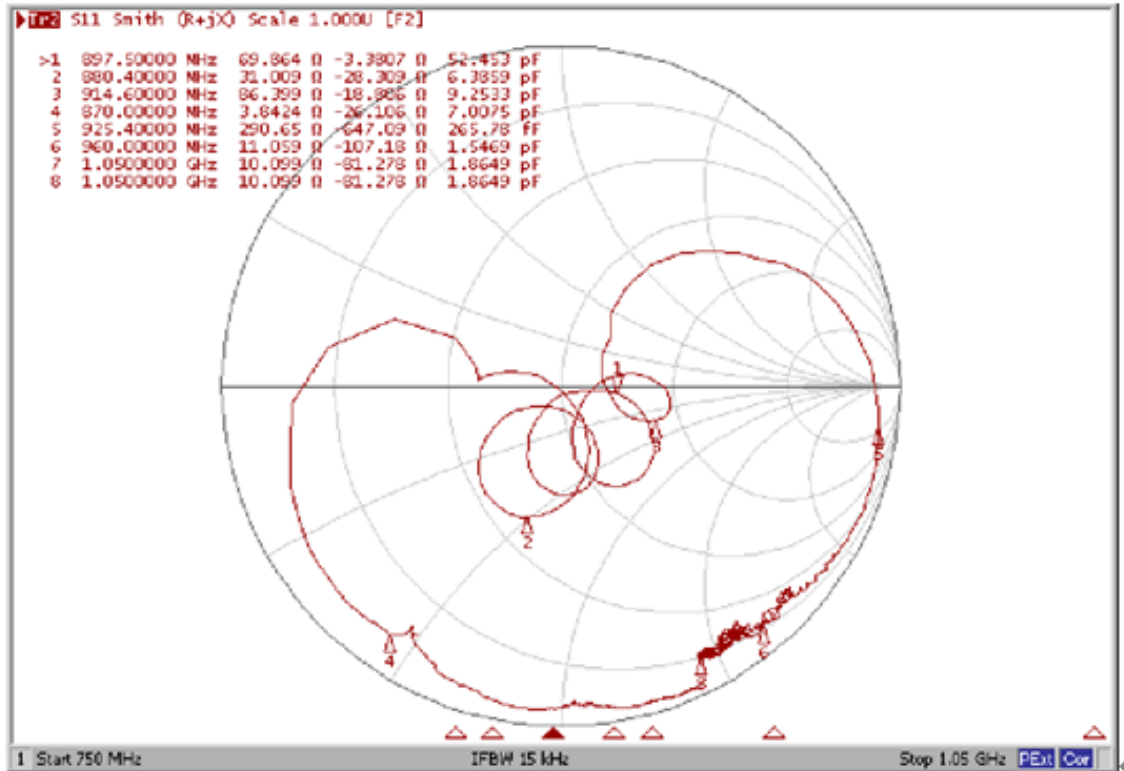
3. Ripple



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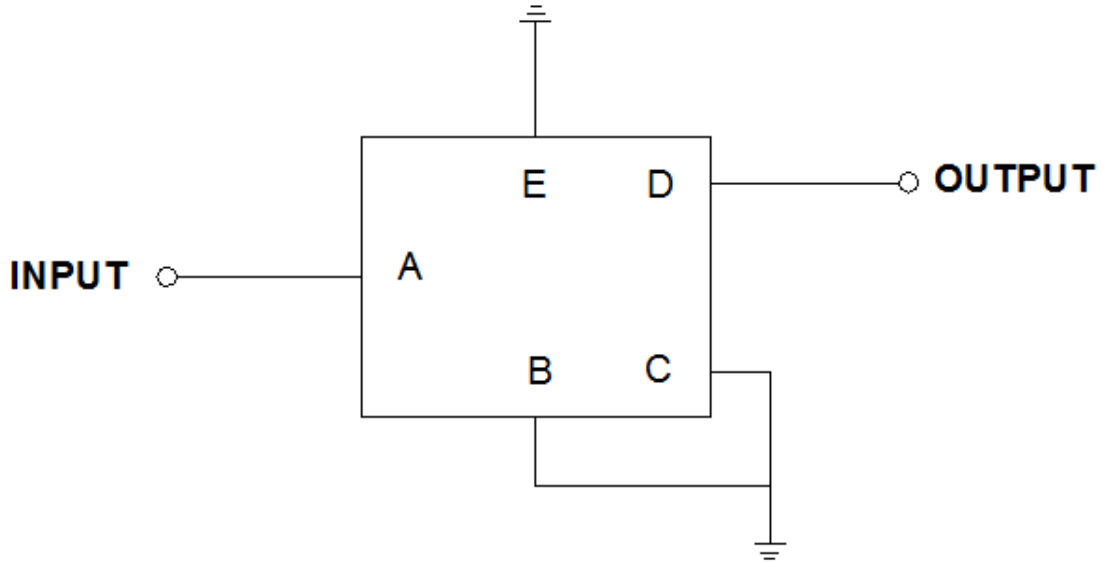
4. Smith Chart



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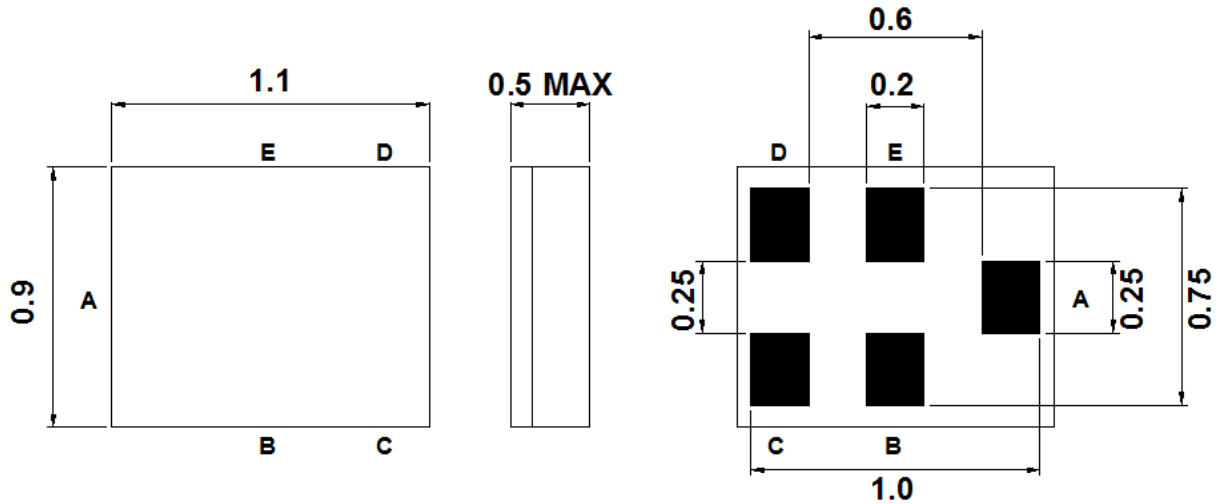
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D. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50Ω

E. OUTLINE DRAWING:



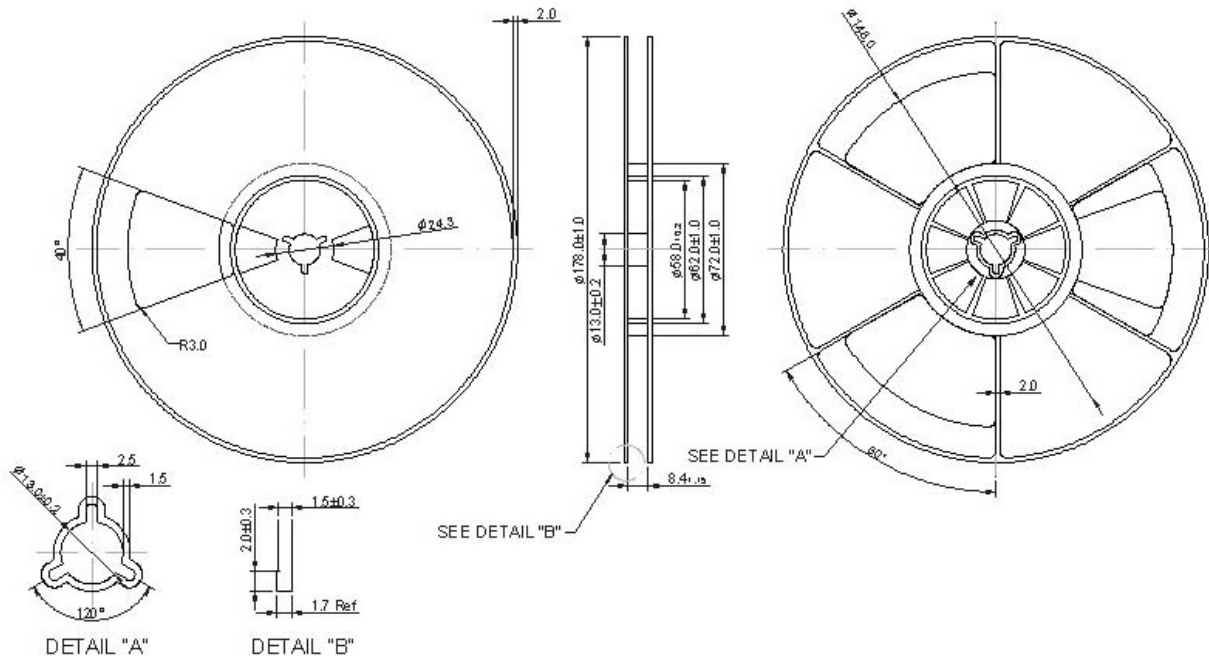
Pin Description	
B, C, E	Ground
A	Input
D	Output

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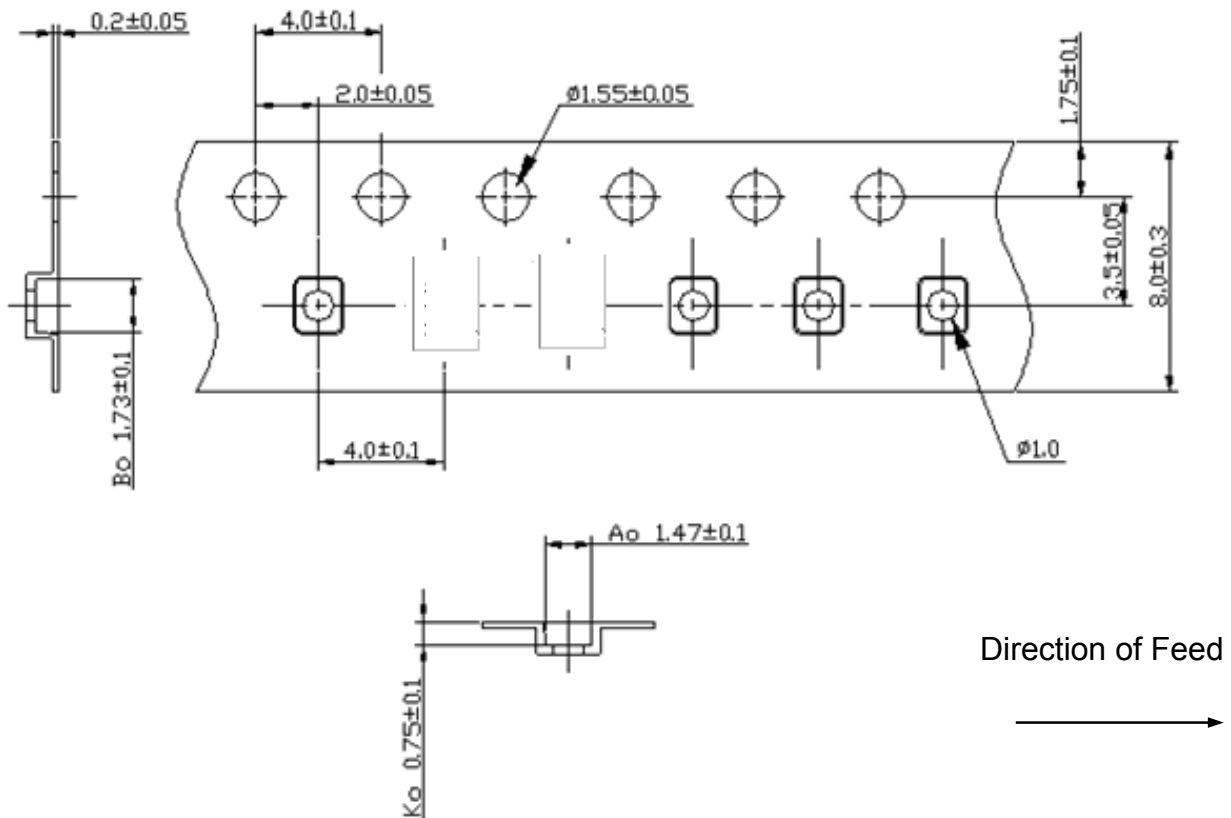
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F. PACKING:

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.

