

**SAW Filter 737.50MHz**

**Model: TA2037A**

**Part No: MP07851**

**Rev No: 2**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Operating temperature range: -30°C to +85°C
2. Storage temperature range: -30°C to +85°C
3. Input power: 15dBm
4. Maximum DC Voltage: ±3V
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:  $Z_L = 50\Omega$

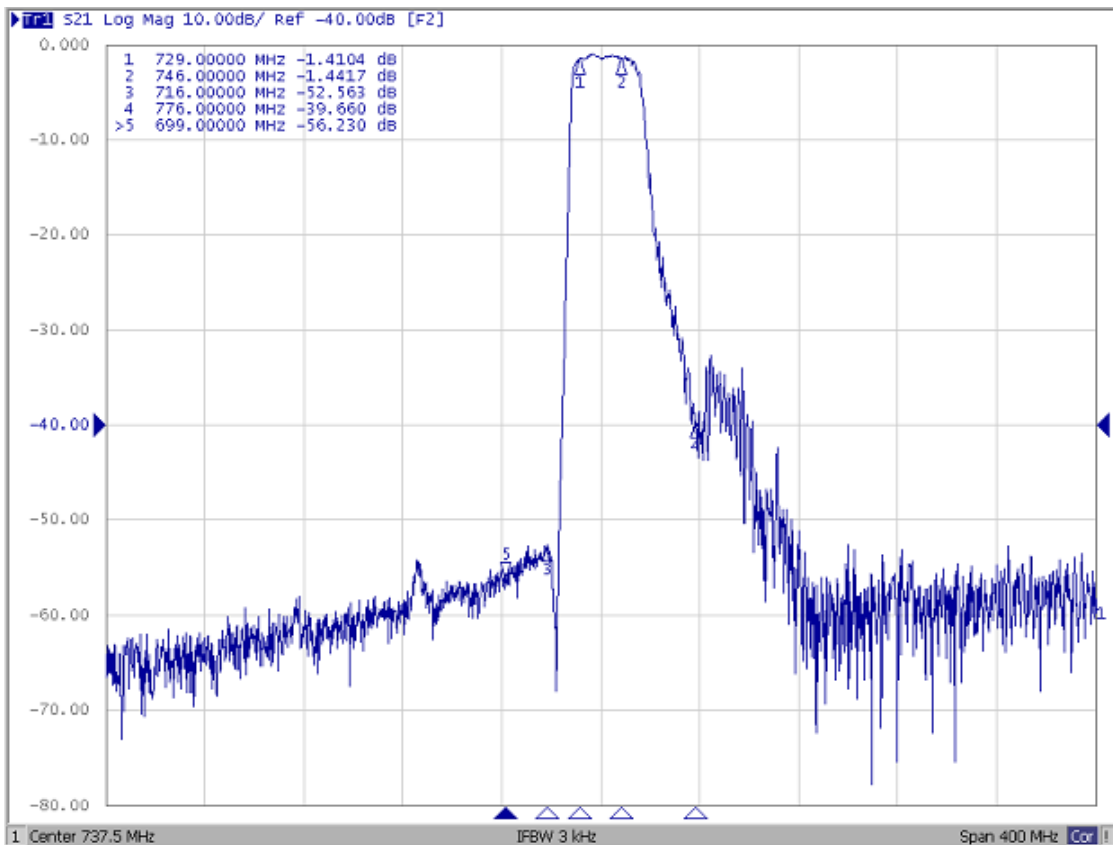
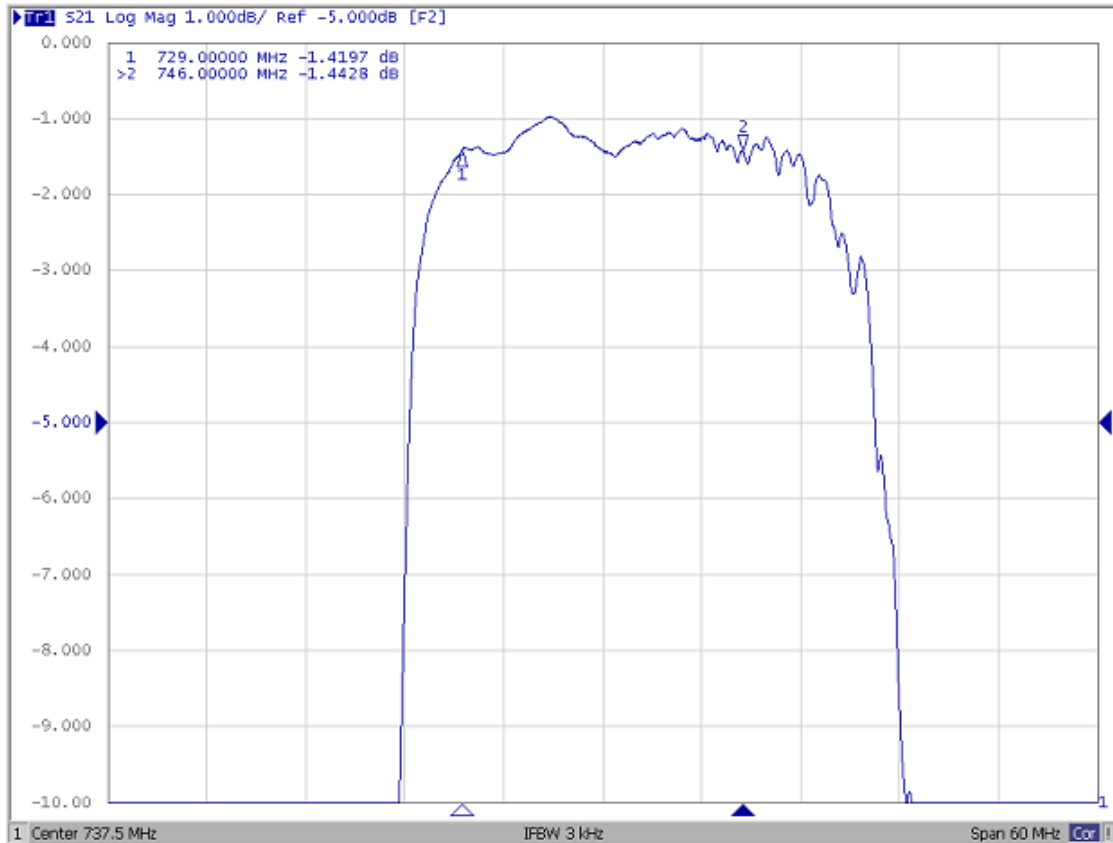
Parameters		Description	Unit	Min	Typ	Max	Remarks
Insertion Loss		729 ~ 746MHz	dB(*1)	-	1.6	2.4	Band 12 Rx
		734 ~ 746MHz	dB(*1)		1.6	2.1	Band 17 Rx
Amplitude ripple		729 ~ 746MHz	dB	-	0.5	1.3	
		734 ~ 746MHz	dB		0.5	1.0	
VSWR	Input	729 ~ 746MHz	-	-	1.8	2.0	
	Output	729 ~ 746MHz	-	-	1.8	2.0	
Attenuation:							
1 ~ 699MHz			dB	40	55	-	
699 ~ 716MHz			dB	50	53	-	
716 ~ 722MHz			dB	20	38	-	
1710 ~ 2238MHz			dB	40	45	-	
2400 ~ 2500MHz			dB	36	43	-	
2500 ~ 6000MHz			dB	30	40	-	
Input impedance			$\Omega$	50			single-ended
Output impedance			$\Omega$	50			single-ended

(\*1): Specification of insertion loss excludes loss that comes from the test board.

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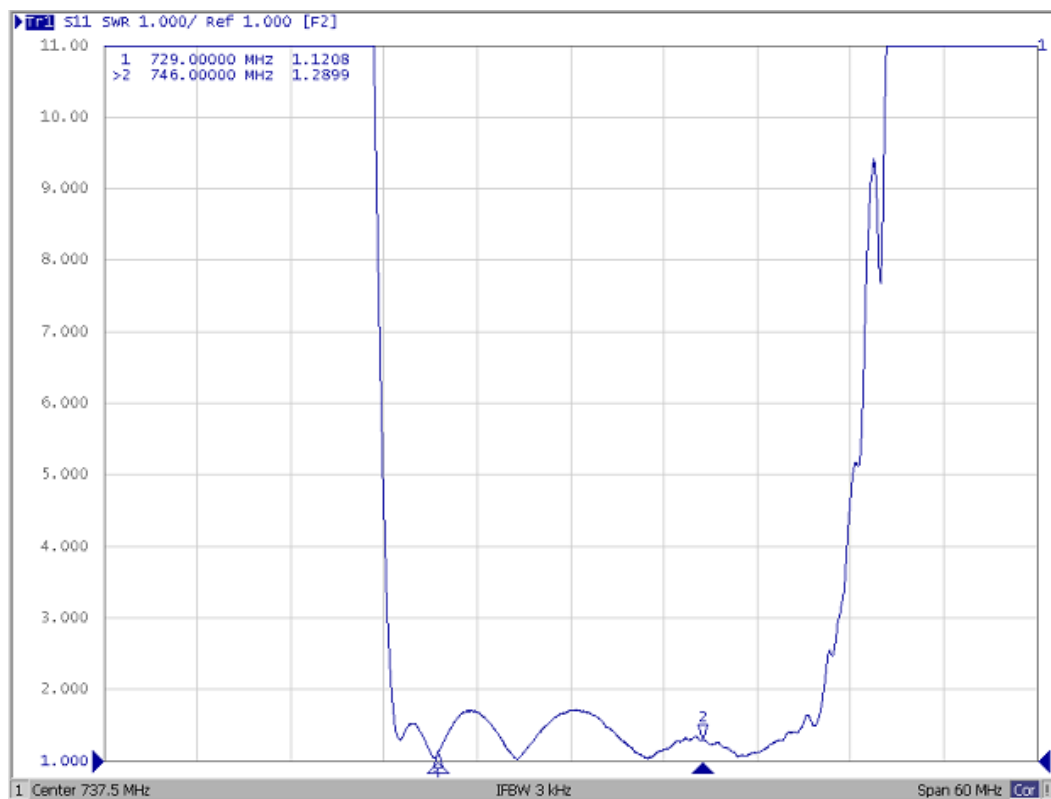
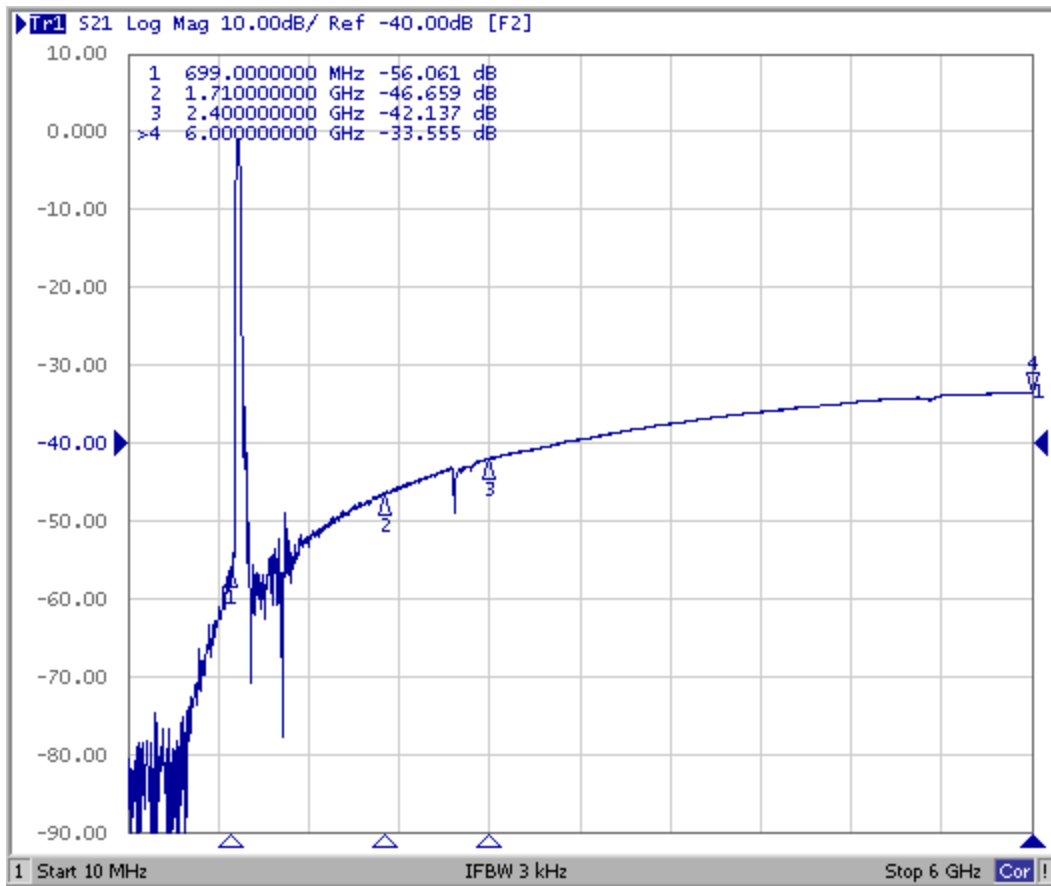
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**C. FREQUENCY CHARACTERISTICS:**



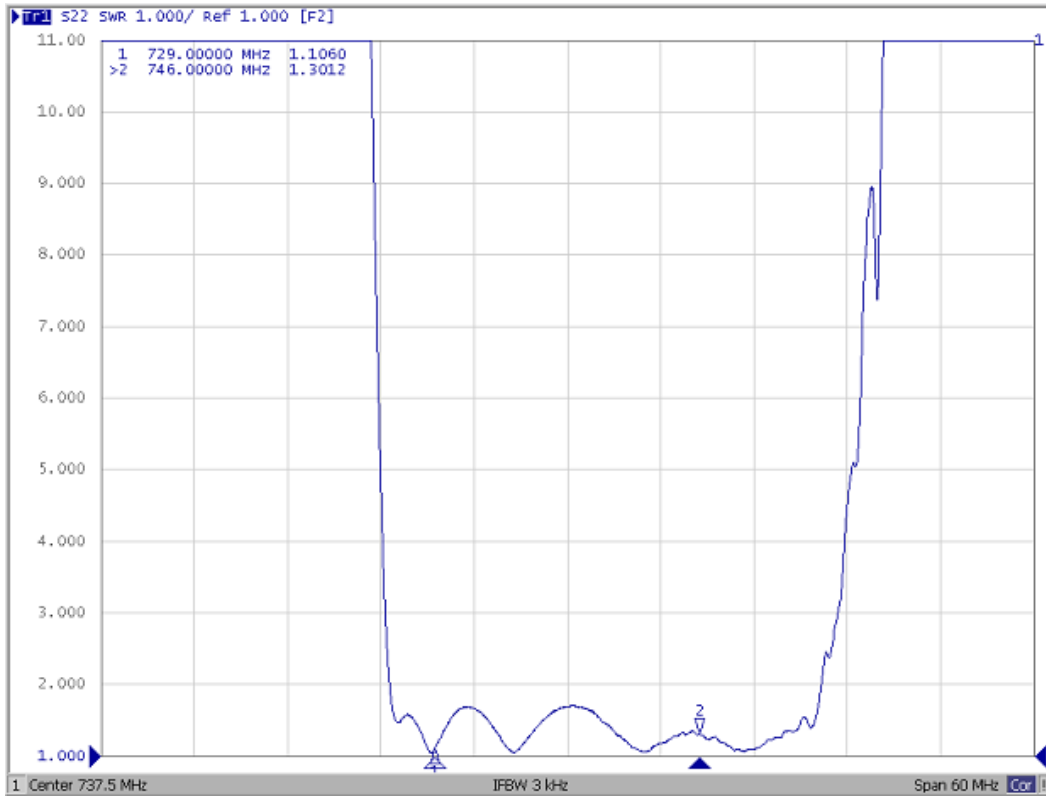
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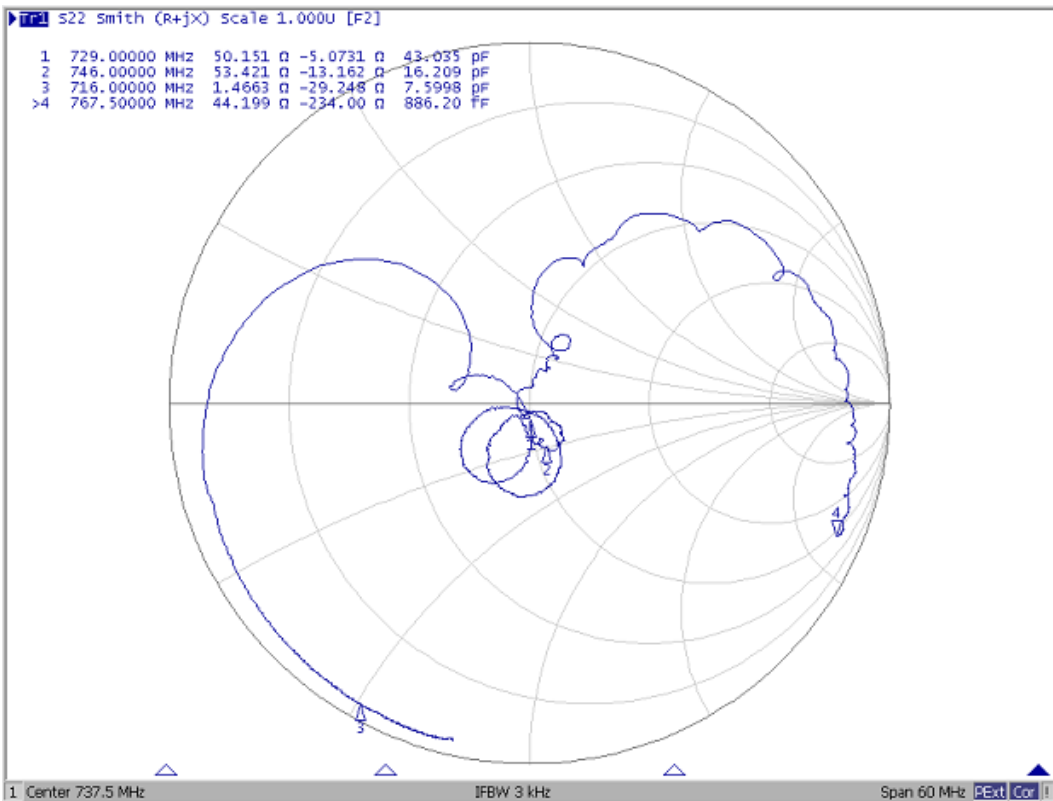
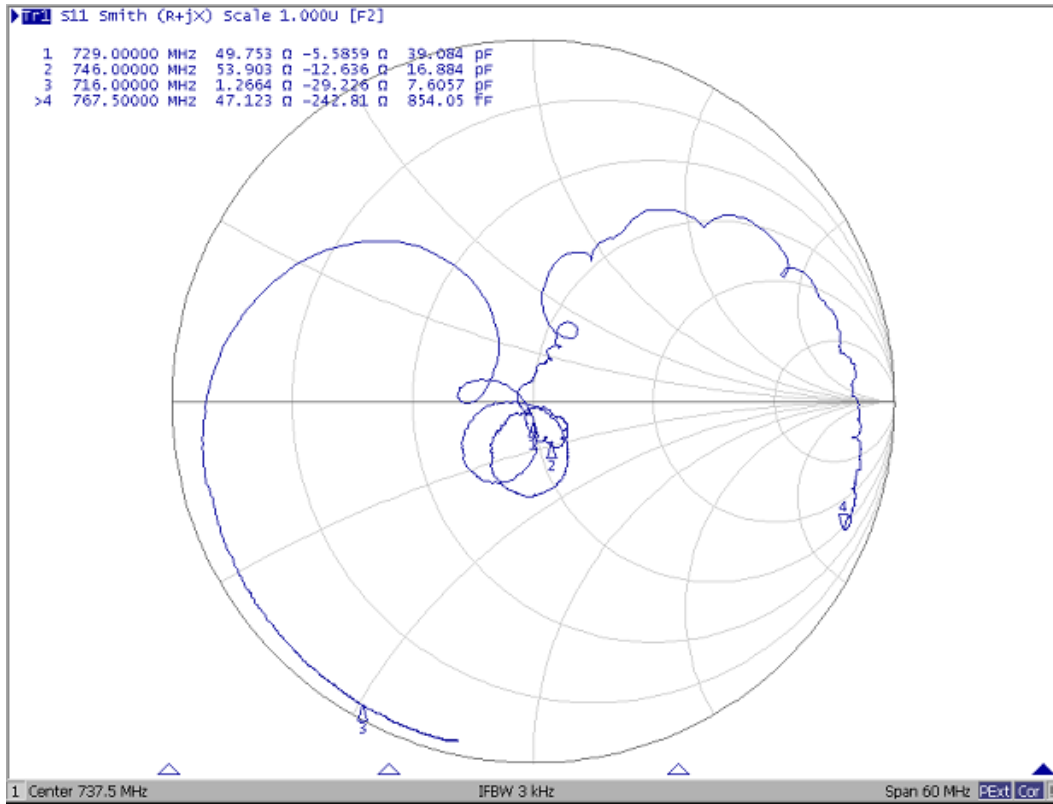
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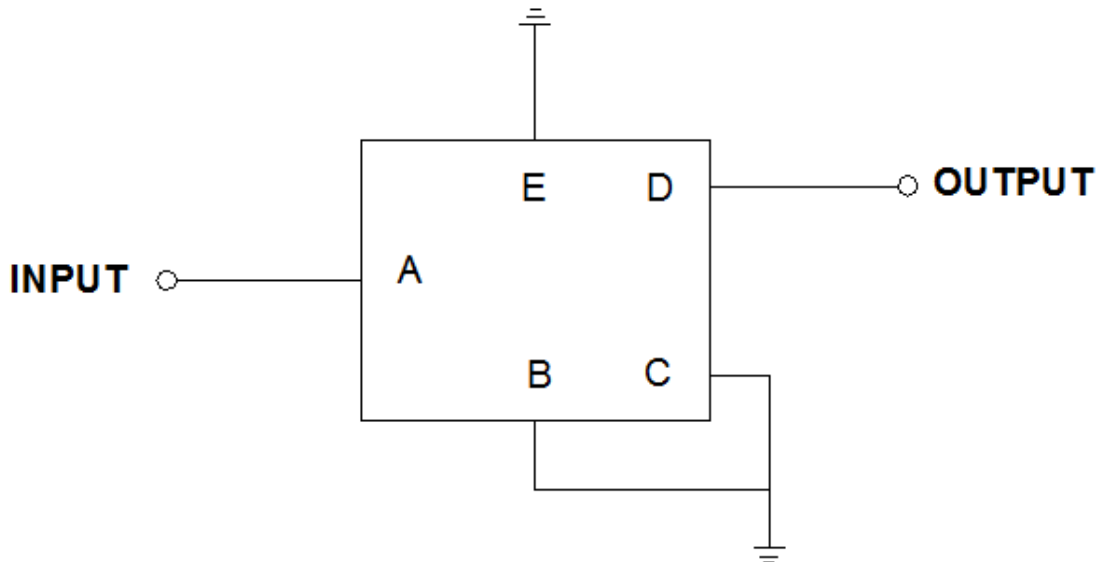
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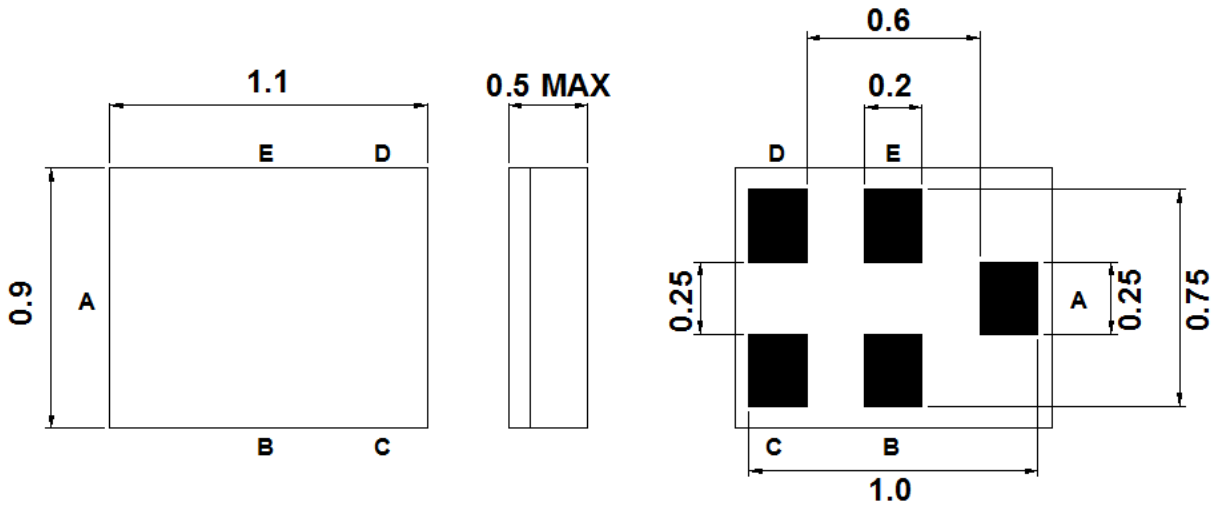
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**D. MEASUREMENT CIRCUIT:**



Source & Load Impedance: 50Ω

**E. OUTLINE DRAWING:**



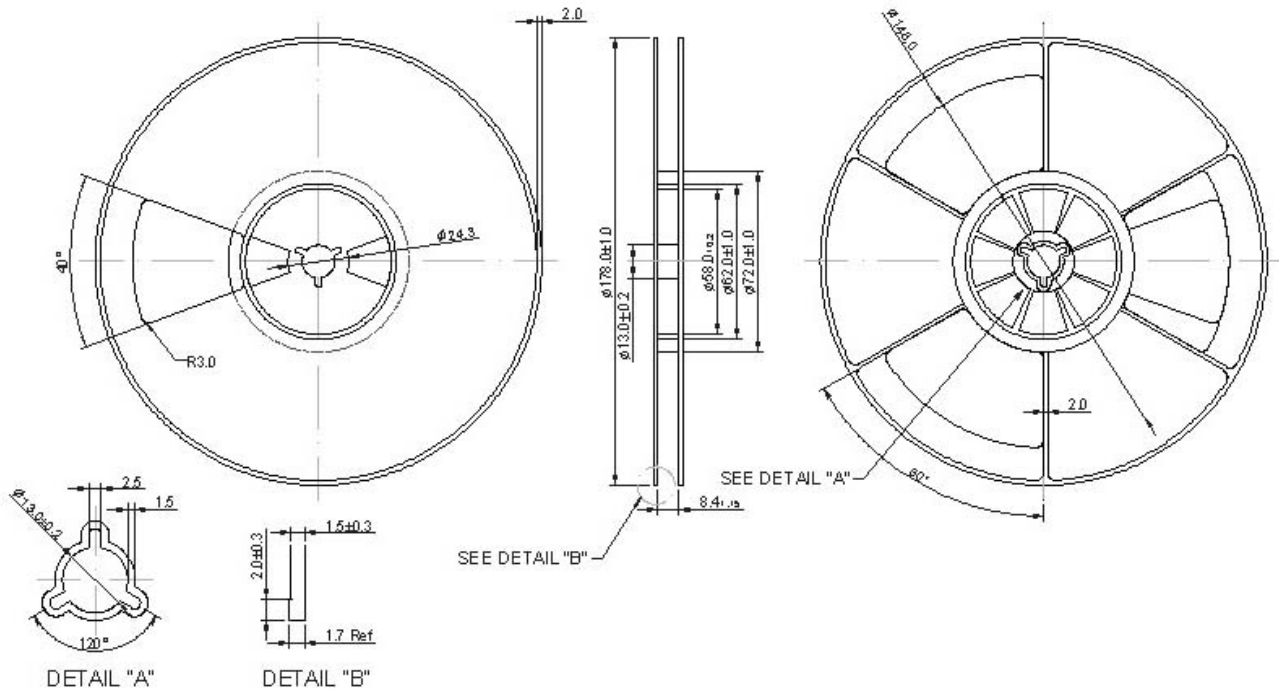
Pin Description	
B, C, E	Ground
A	Input
D	Output

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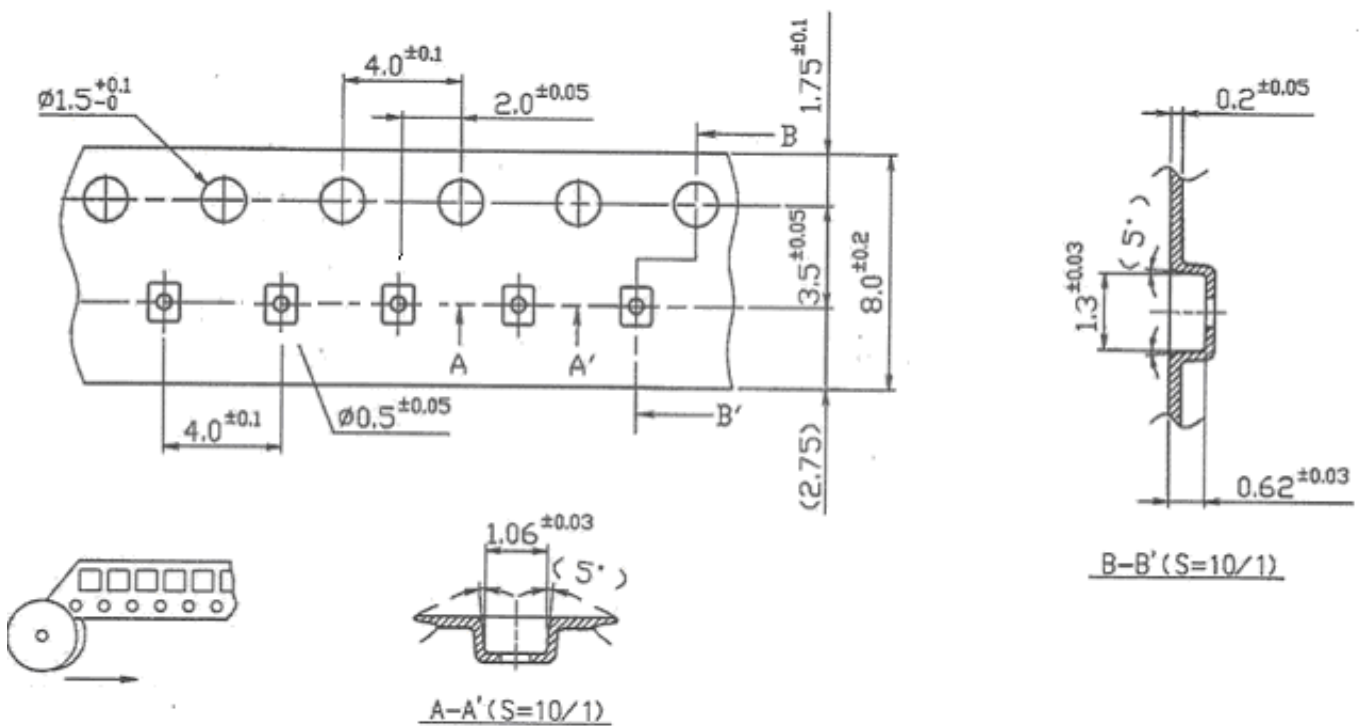
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**F. PACKING:**

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

