

**SAW Filter 2655.0MHz**

**Model No: TA1847A**

**Part No: MP08937**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

Temperature range: -30°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

1. Terminating source impedance:  $Z_S = 50 \parallel 5.1\text{nH } \Omega$  (Single-ended)
2. Terminating load impedance:  $Z_L = 50 \parallel 5.1\text{nH } \Omega$  (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency		MHz	-	2655	-
Insertion Loss (*1)	2620 ~ 2690MHz	dB	-	2.5	3.0
Amplitude Ripple	2620 ~ 2690MHz	dB	-	0.8	1.5
VSWR	Input				
	2620 ~ 2690MHz	-	-	1.6	2.0
	Output				
	2620 ~ 2690MHz	-	-	1.8	2.2
Attenuation:					
1 ~ 2400MHz		dB	30	36	-
45MHz		dB	50	65	-
2400 ~ 2500MHz		dB	32	37	-
2500 ~ 2570MHz		dB	35	38	-
2570 ~ 2600MHz		dB	2	4	-
2775 ~ 6000MHz		dB	15	30	-
7620 ~ 7830MHz		dB	15	25	-
7860 ~ 8000MHz		dB	15	24	-

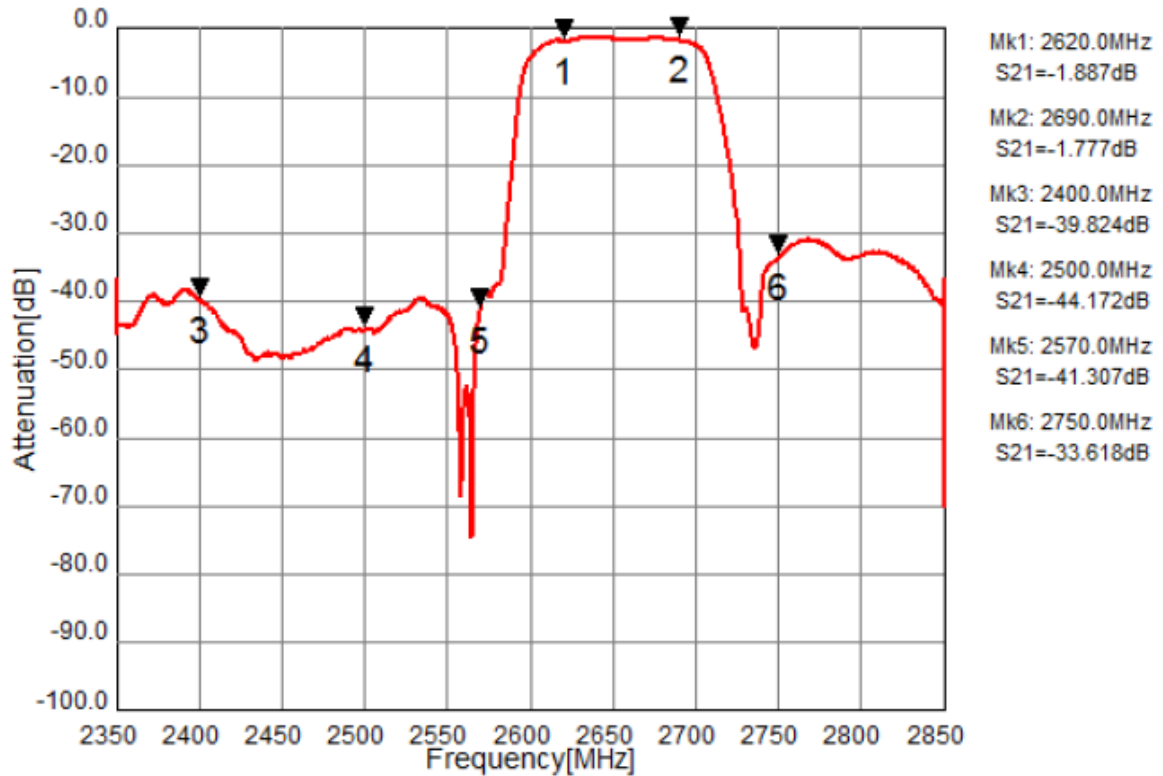
Note (\*1): Specification of insertion loss includes loss that comes from the test board.

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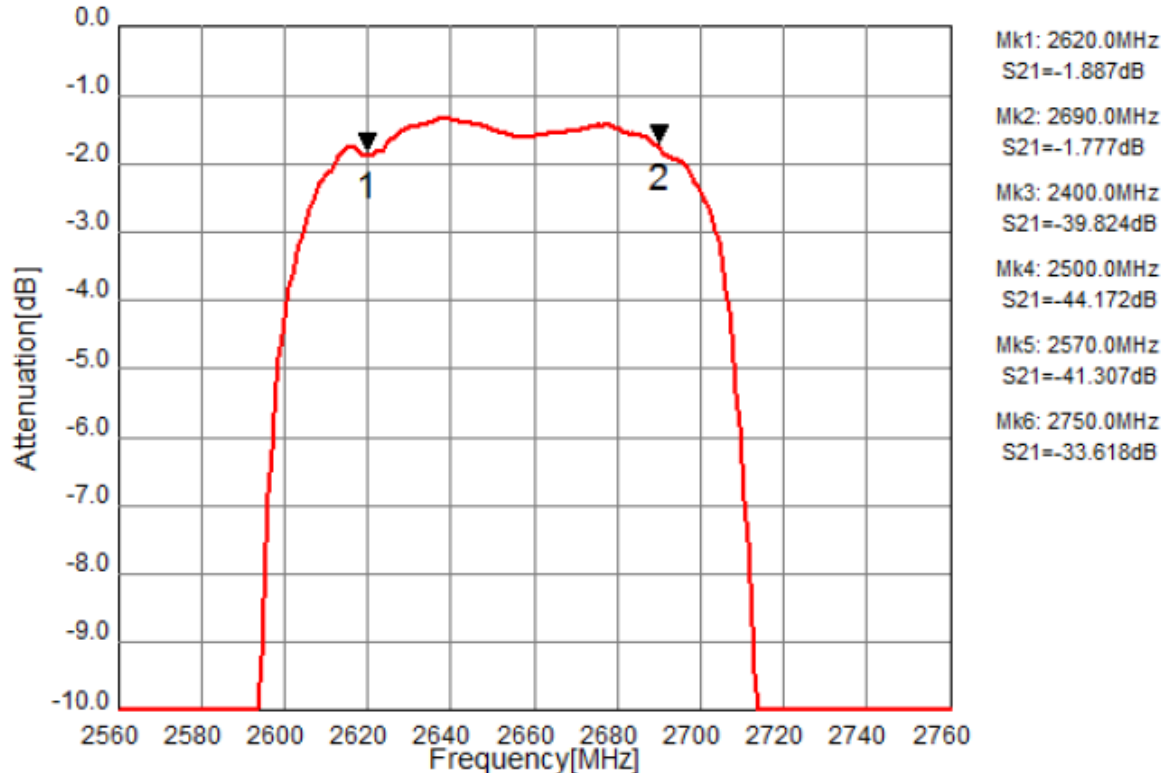
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**C. FREQUENCY CHARACTERISTICS:**

1. Pass-band



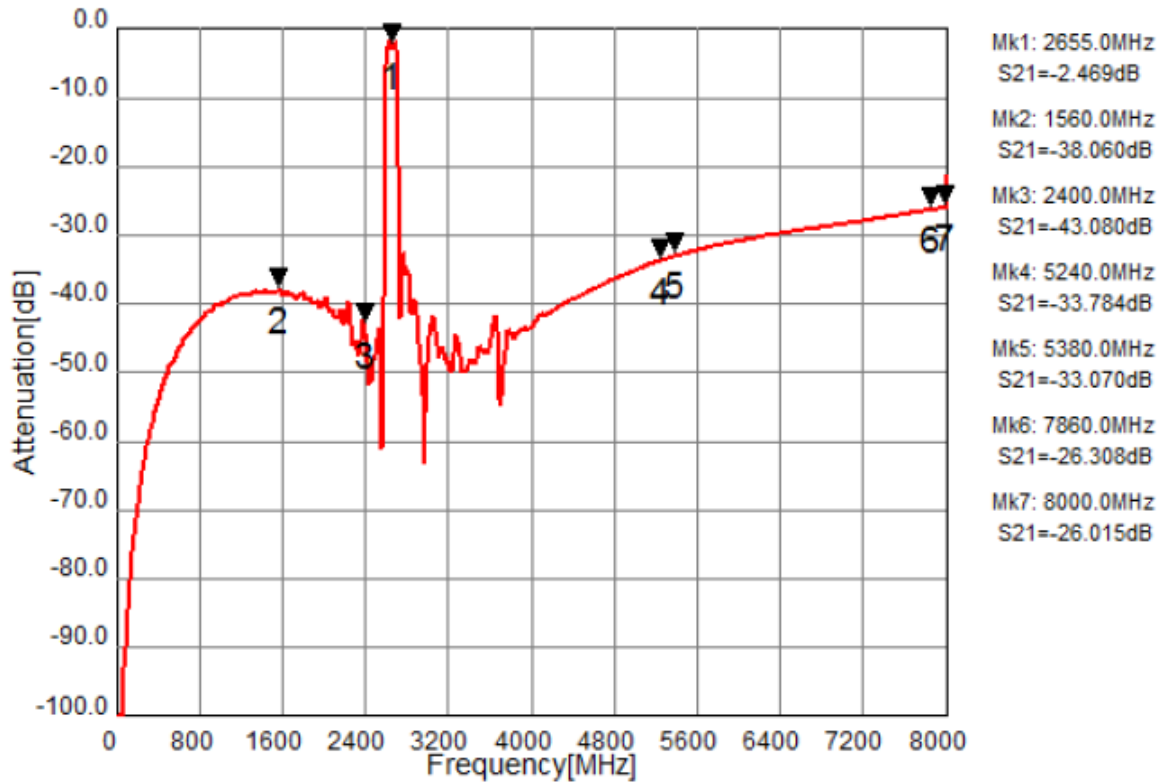
2. In-band



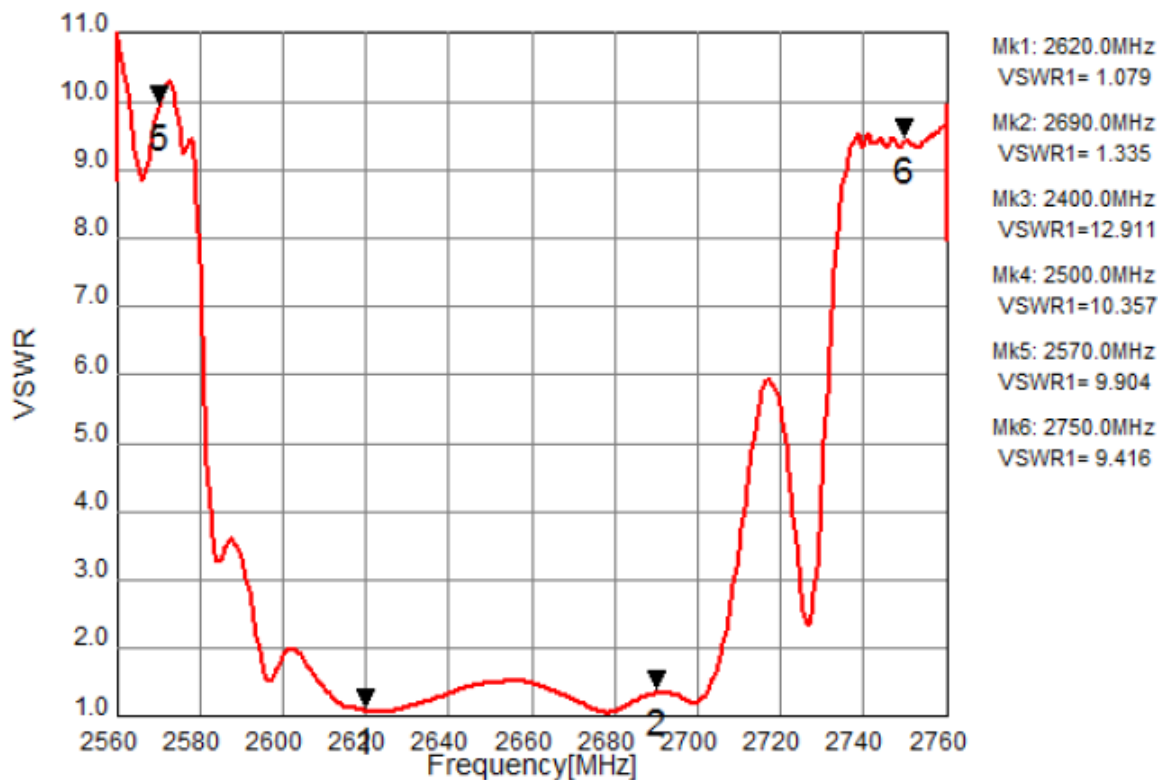
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3. Wide-band



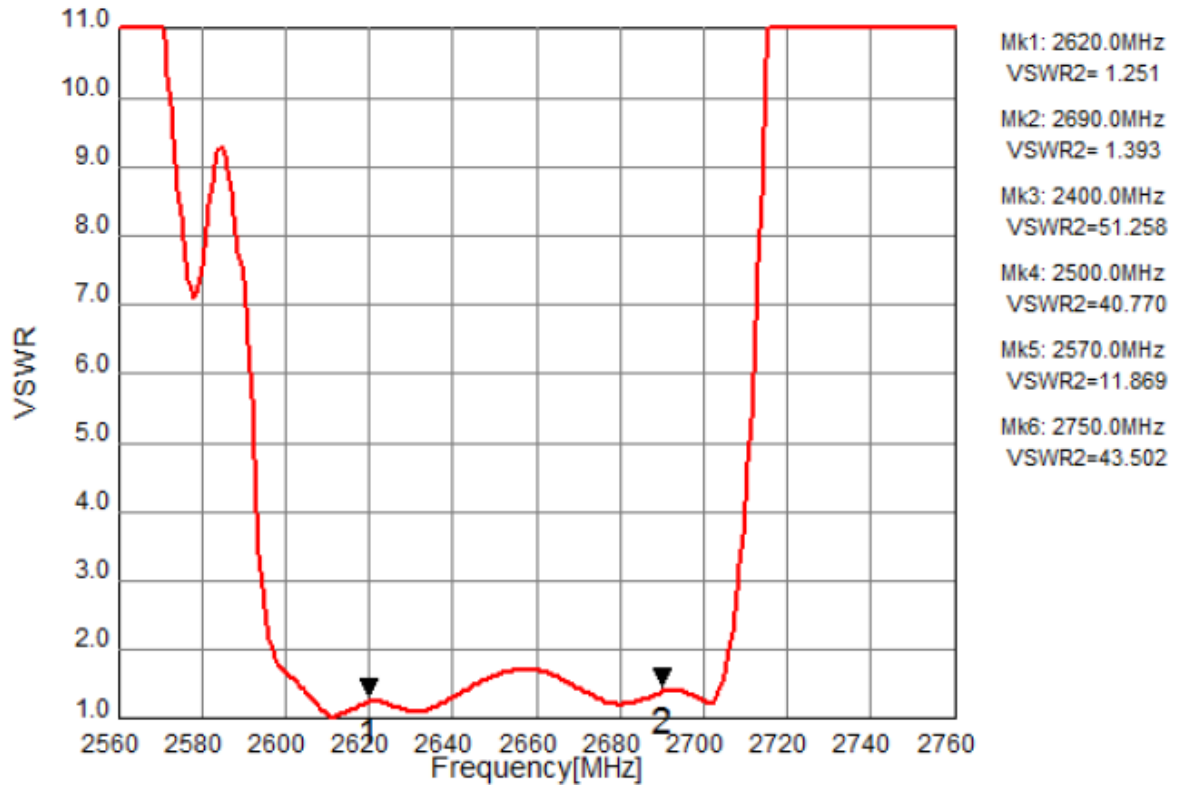
4. VSWR (Input)



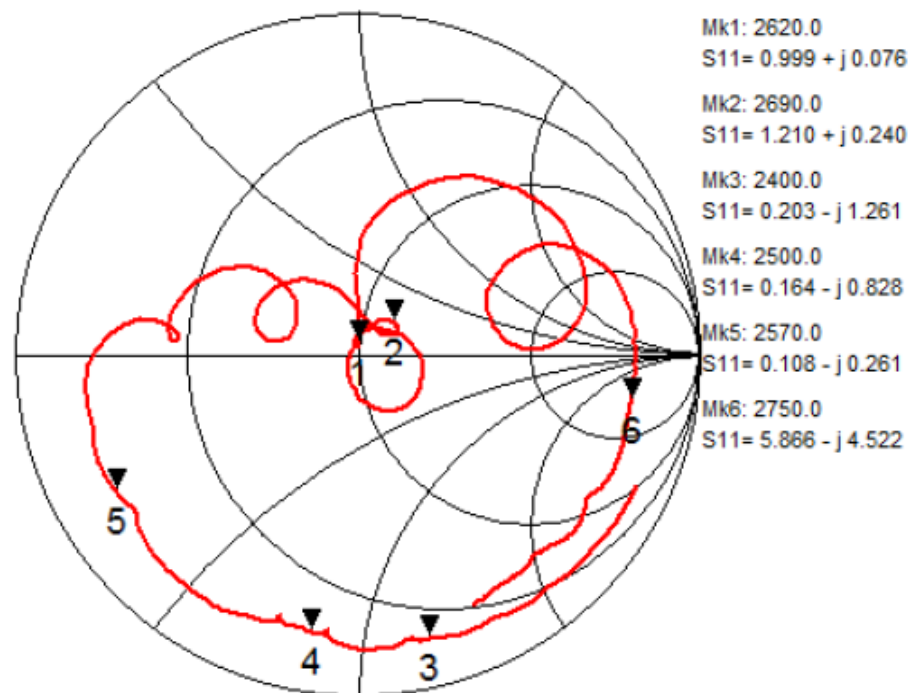
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5. VSWR (Output)



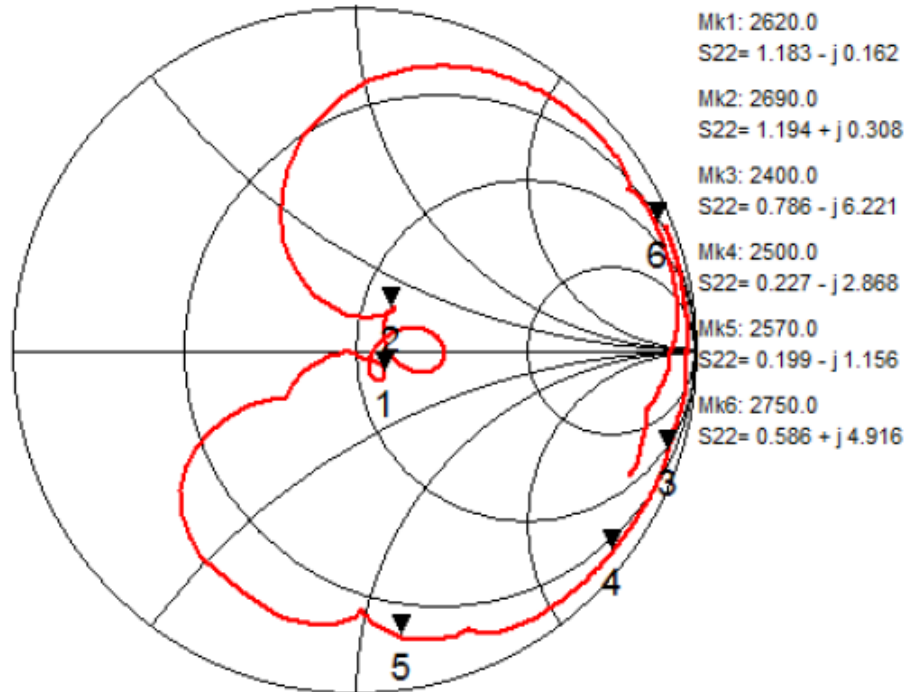
6. Input Impedance



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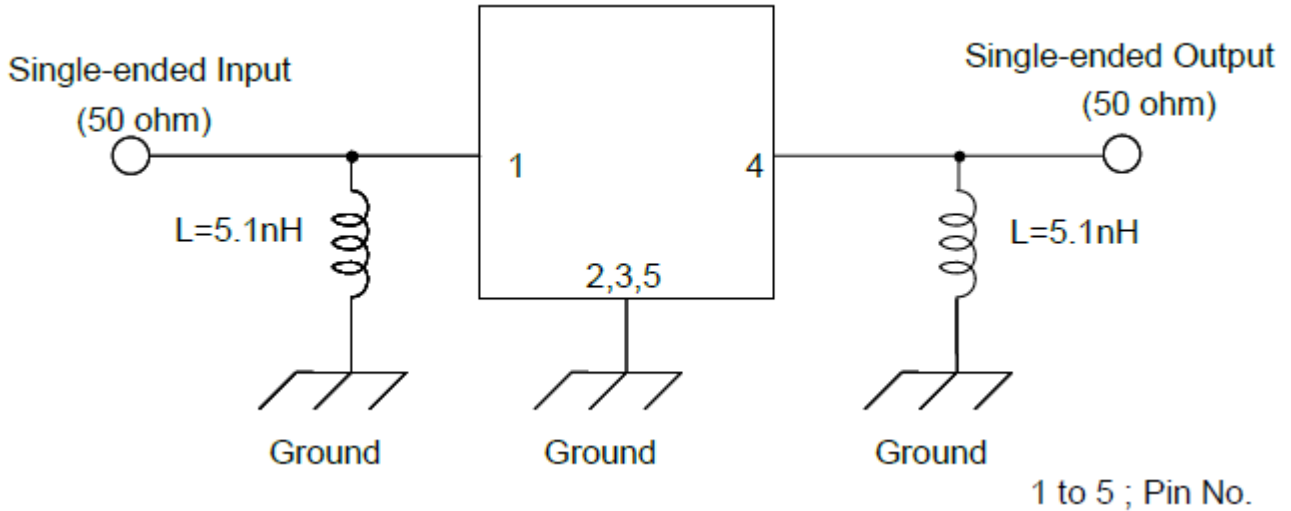
7. Output Impedance



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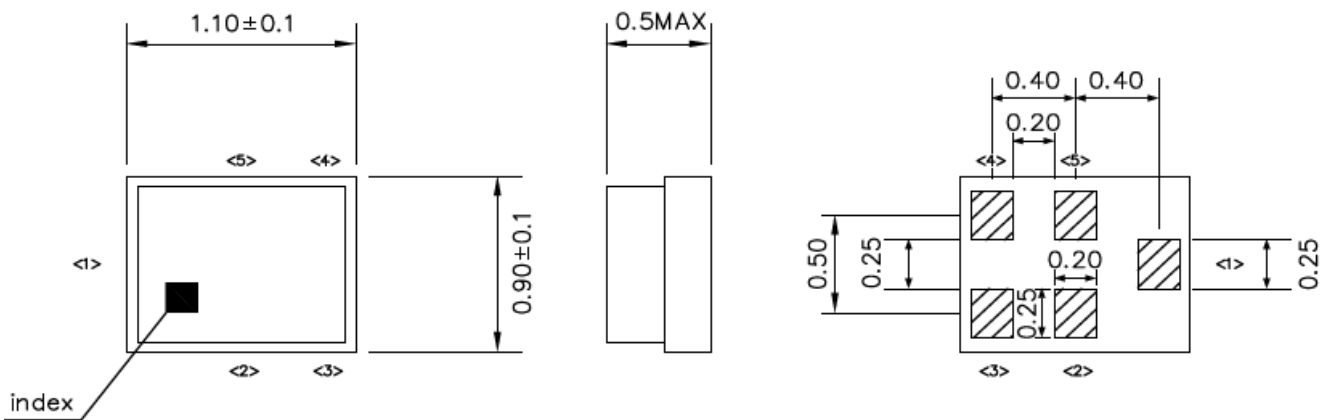
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**D. MEASUREMENT CIRCUIT:**



**E. OUTLINE DRAWING:**

Device size: 1.1typ. x 0.9typ. x 0.5max.



Unit : mm

**Pin Configuration**

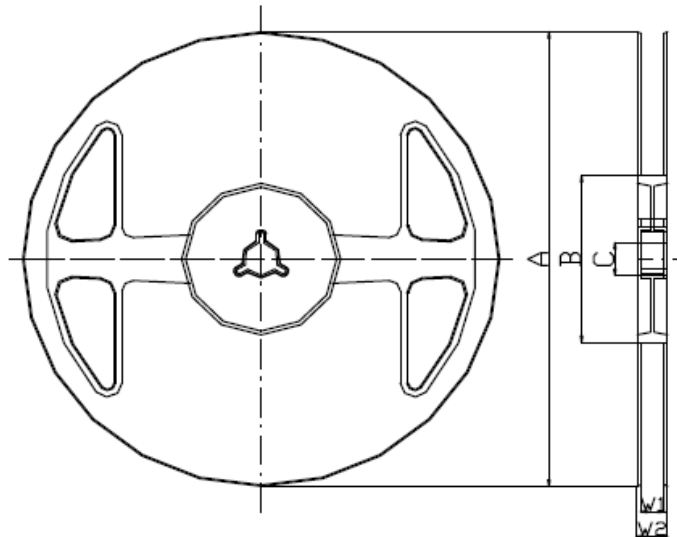
Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	GND	Ground
4	OUT	Single-ended pin
5	GND	Ground

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**F. PACKING:**

1. Reel Dimension



**Materials of Reel**

Material : Polystyrene + Carbon

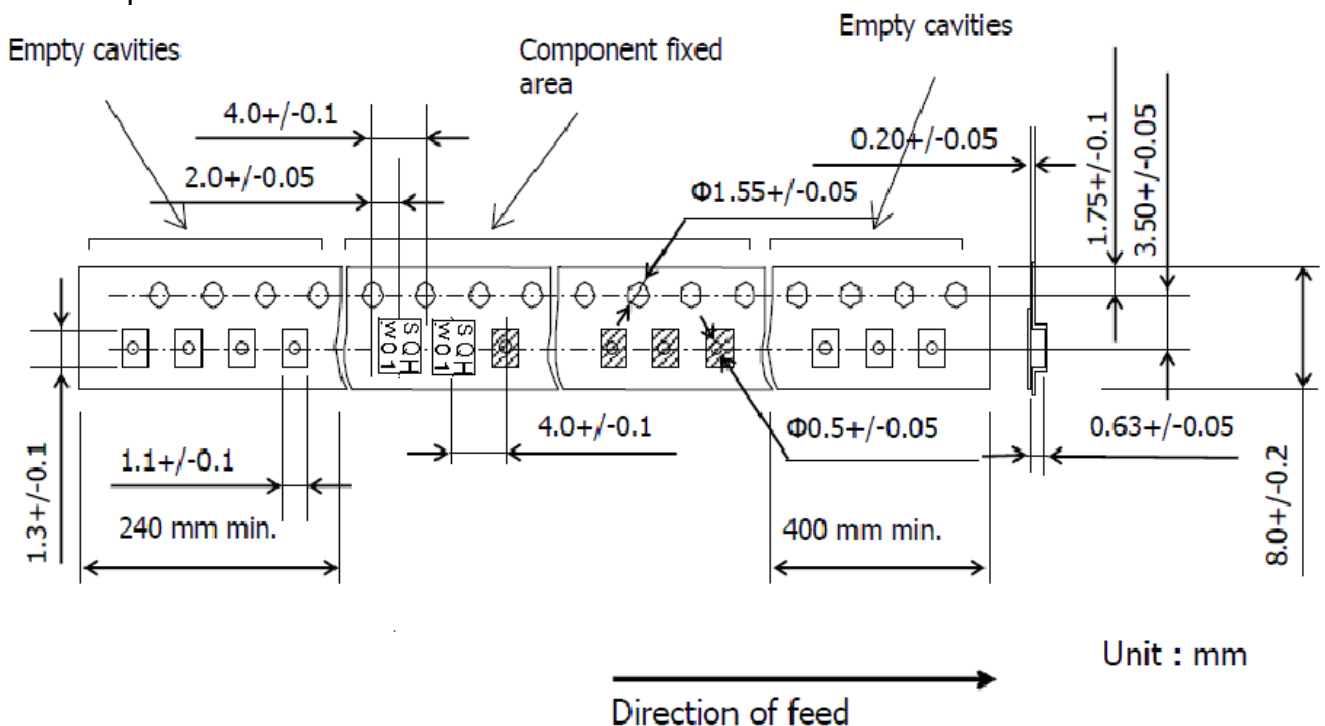
Color : Black

Surface resistance (reference value) :  $10^9 \Omega/\text{sq}$  Max.

Unit : mm

Code	Quantity	A	B	C	W1	W2
J	5,000 pcs	$\phi 180.0 +0.0/-1.5$	$\phi 66.0 +/-0.5$	$\phi 13.0 +/-0.2$	$9.0 +1.0/-0.0$	$11.4 +/-1.0$

2. Tape Dimension



Unit : mm

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**G. RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING:**

The figure below shows the recommended temperature profile for reflow soldering in the case of lead-free solder alloy Sn3.0Ag0.5Cu.

Recommended number of reflow cycles is 5 maximum.

Suitable condition for solder heating is different depending on composition and manufacturing method. Please contact the solder manufacturer for details.

