

SAW Filter 1747.50MHz

Model: TA1885A

Part No: MP07840

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

Temperature range: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: $Z_S = 50 \parallel 7.5\text{nH } \Omega$ (Single)
2. Terminating load impedance: $Z_L = 50 \parallel 6.8\text{nH } \Omega$ (Single)

Parameters Description		Unit	Min.	Typ.	Max.	Remarks
Center Frequency		MHz	-	1747.5	-	
Insertion Loss (*1)	1710 ~ 1785MHz	dB	-	2.1	2.4	at 25°C
		dB	-	-	3.0	
Amplitude ripple	1710 ~ 1785MHz	dB	-	1.0	1.5	at 25°C
		dB	-	-	2.0	
VSWR(Input)	1710 ~ 1785MHz	-	-	1.8	2.2	
VSWR(Output)	1710 ~ 1785MHz	-	-	1.8	2.2	
Attenuation:						
DC ~ 1570MHz		dB	25	36	-	
1570 ~ 1580MHz		dB	35	41	-	
1805 ~ 1880MHz		dB	15	22	-	at 25°C
		dB	10	-	-	
1930 ~ 2400MHz		dB	25	34	-	
2400 ~ 3000MHz		dB	15	32	-	
3000 ~ 4000MHz		dB	10	27	-	
4000 ~ 6000MHz		dB	5	21	-	

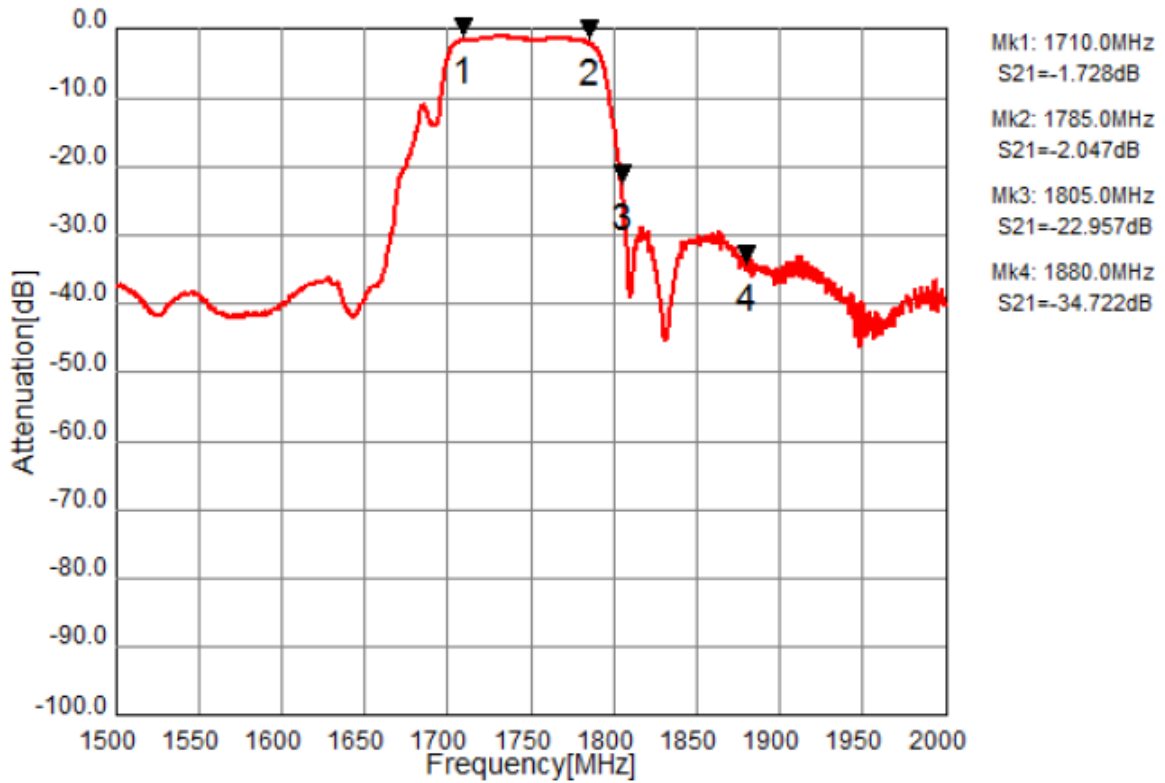
(*1) Specification of insertion loss includes loss that comes from the test board. (Value: 0.15dB).

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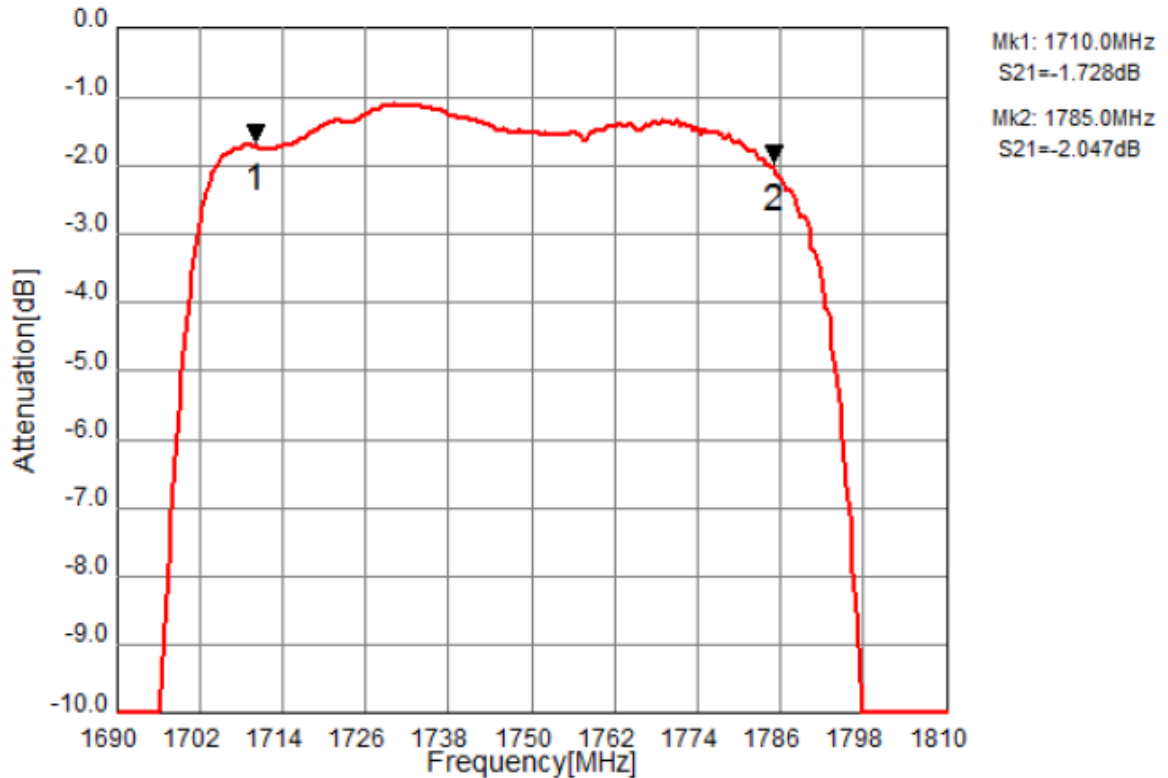
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C. FREQUENCY CHARACTERISTIC:

1. Pass-band



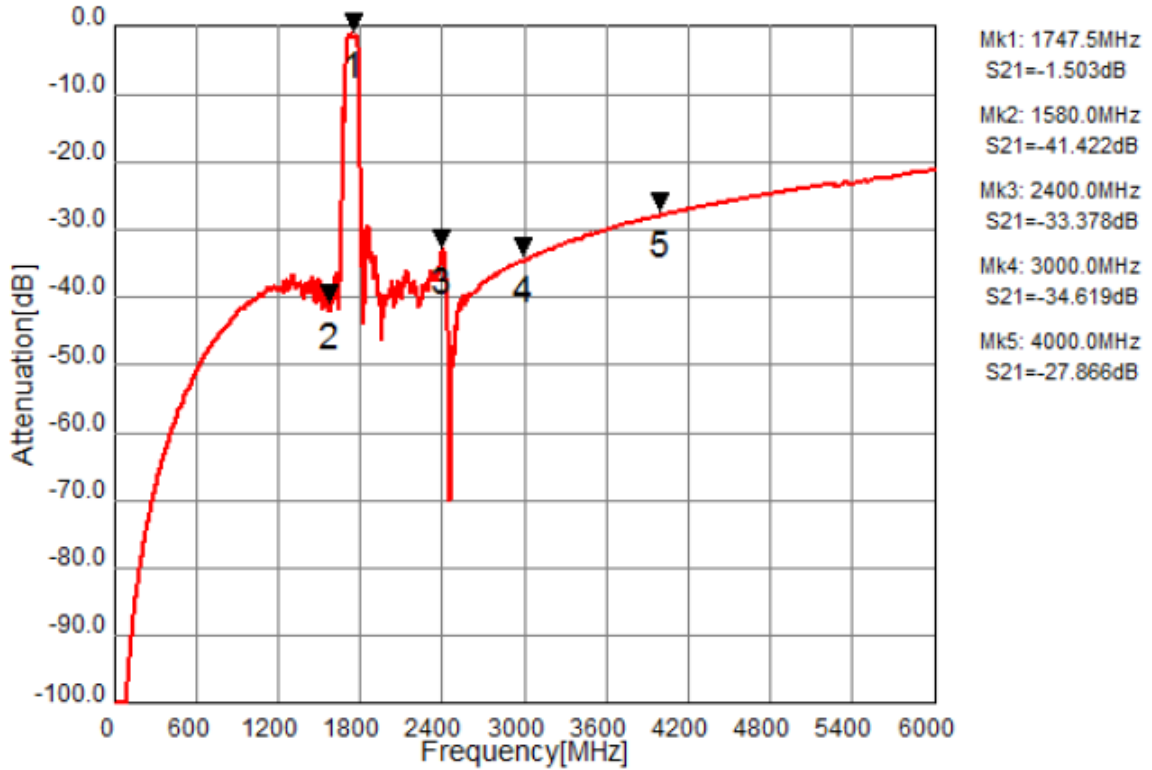
2. In-band



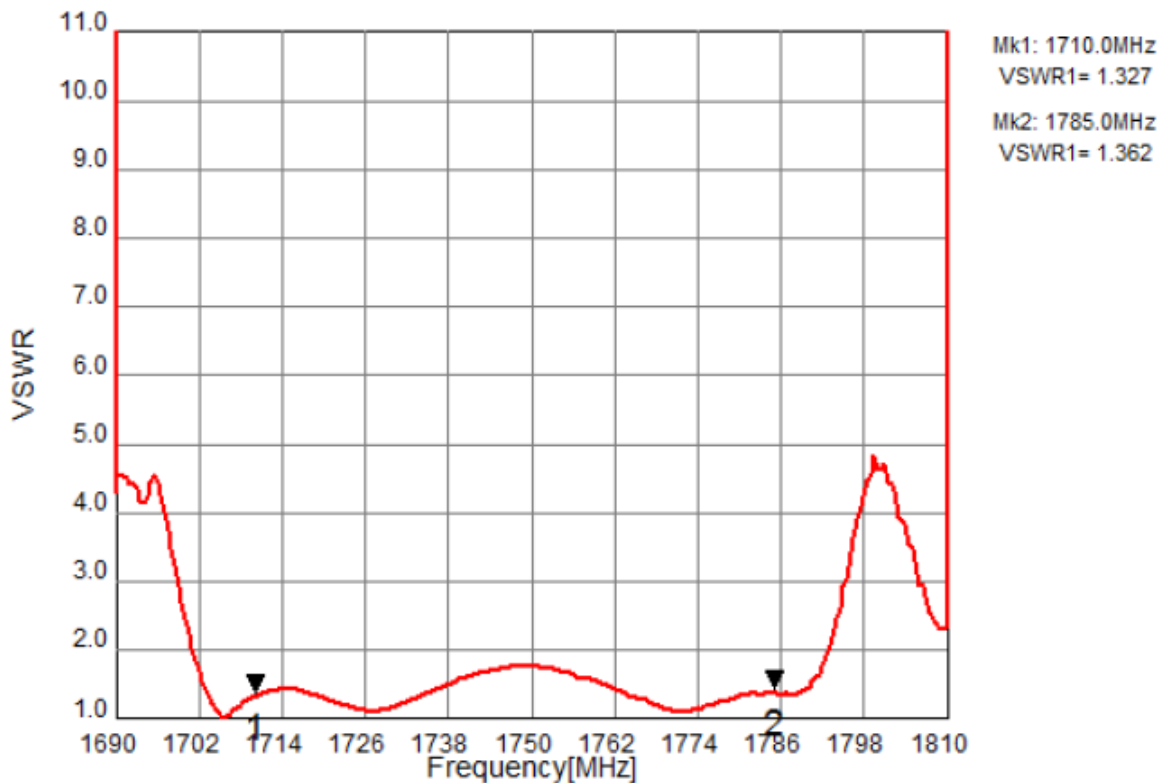
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3. Wide-band



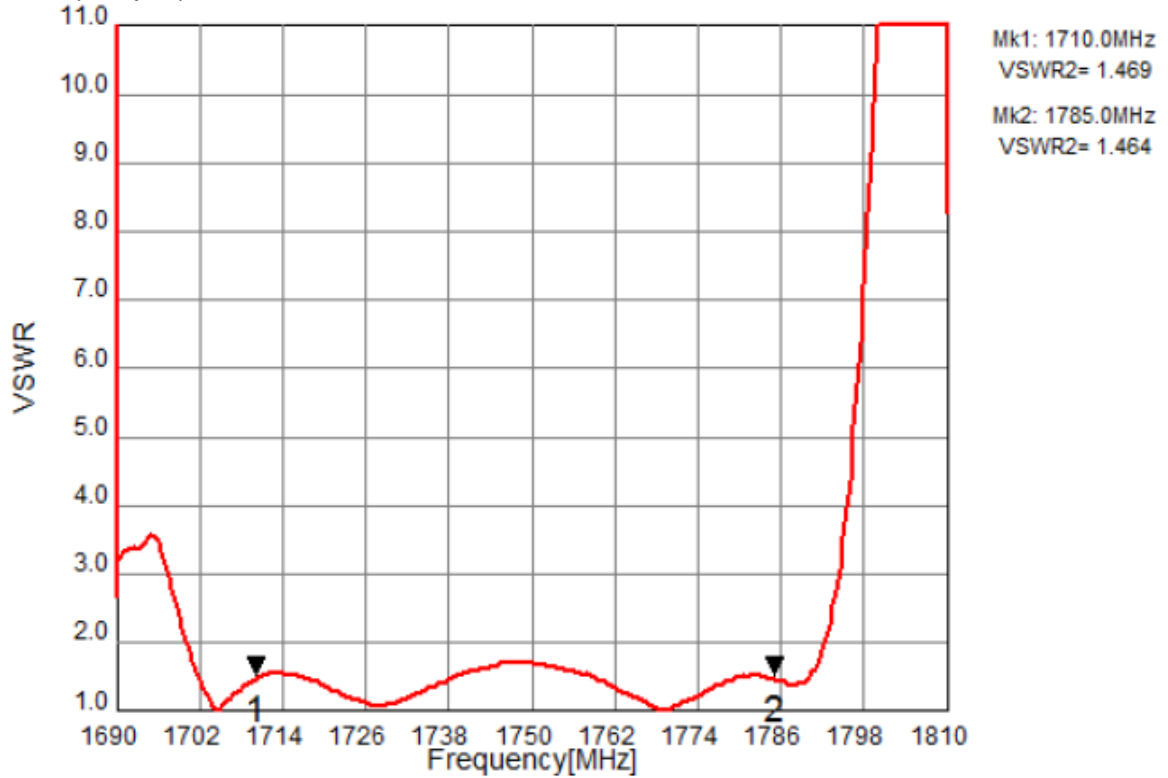
4. VSWR (Input)



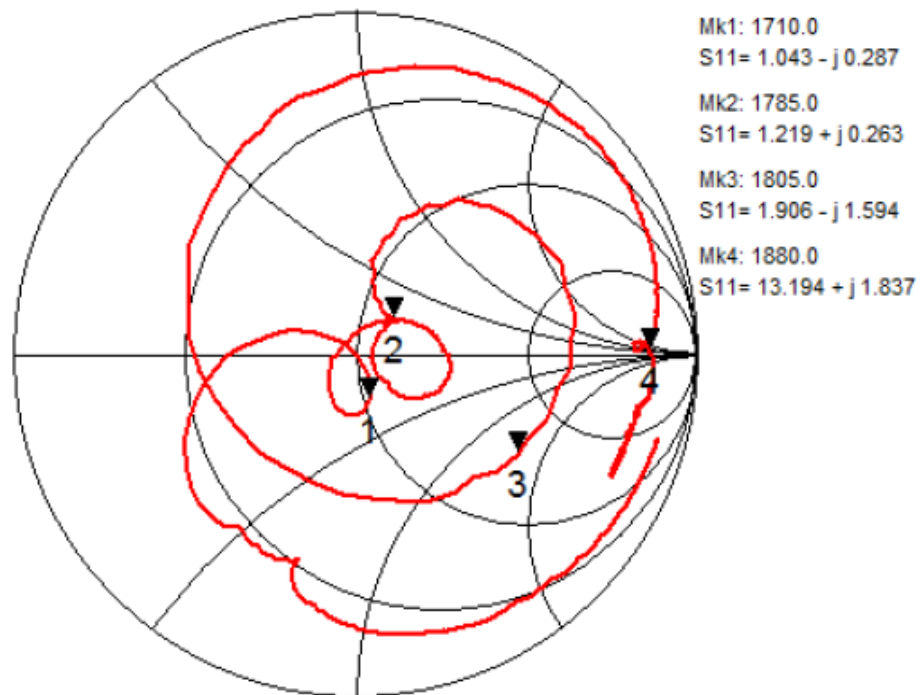
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5. VSWR (Output)



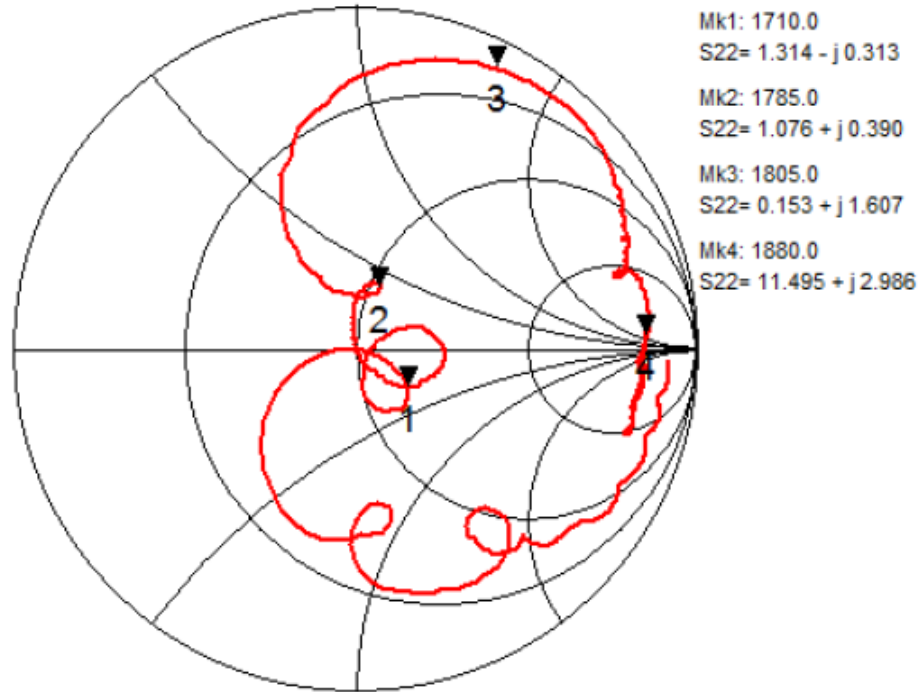
6. Input Impedance



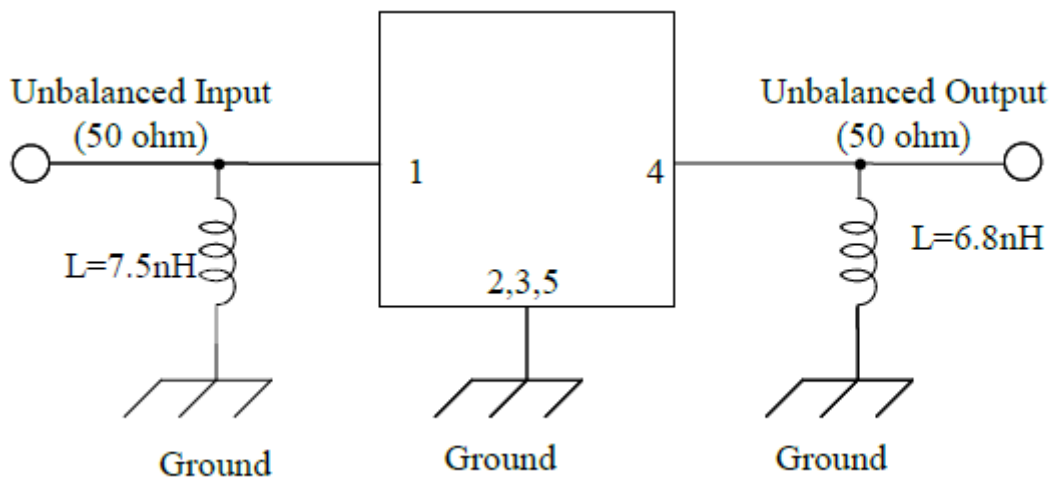
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7. Output Impedance



D. MEASUREMENT CIRCUIT:



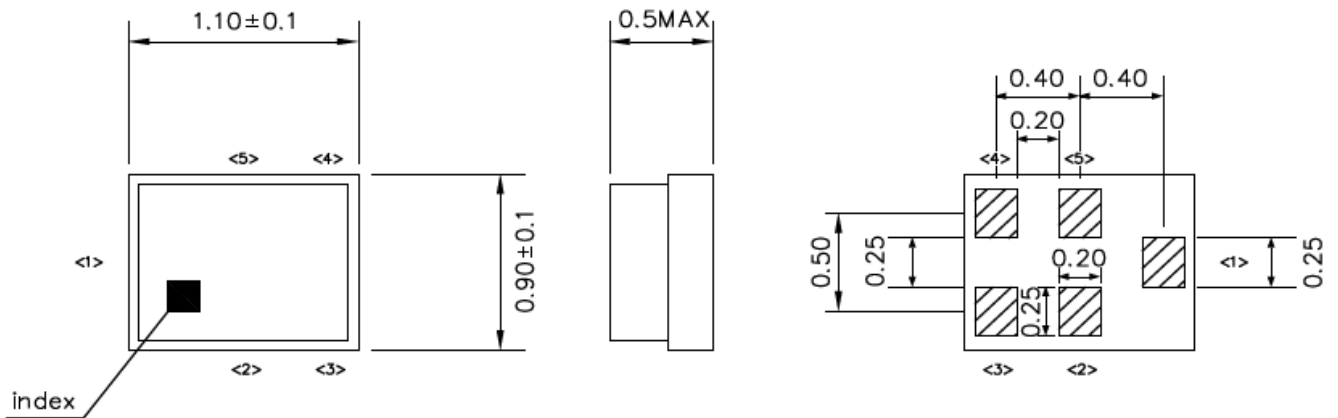
1 to 5 ; Pin No.

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E. OUTLINE DRAWING:

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



Unit : mm

Pin Configuration

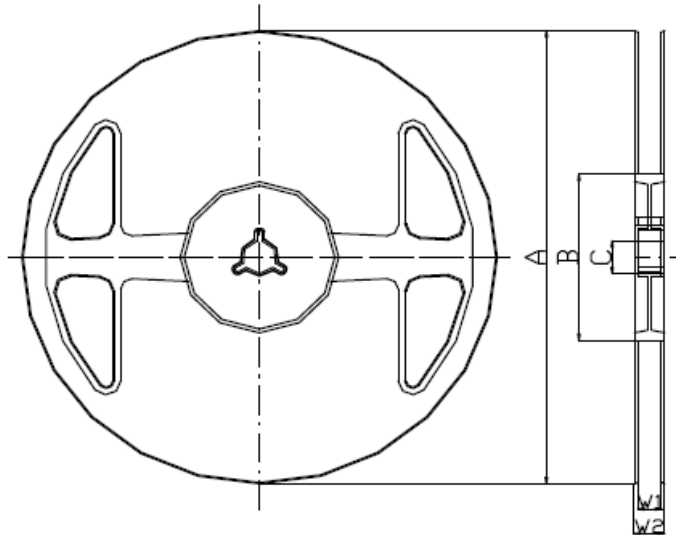
Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

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F. PACKING:

1. Reel Dimension



Materials of Reel

Material : Polystyrene + Carbon

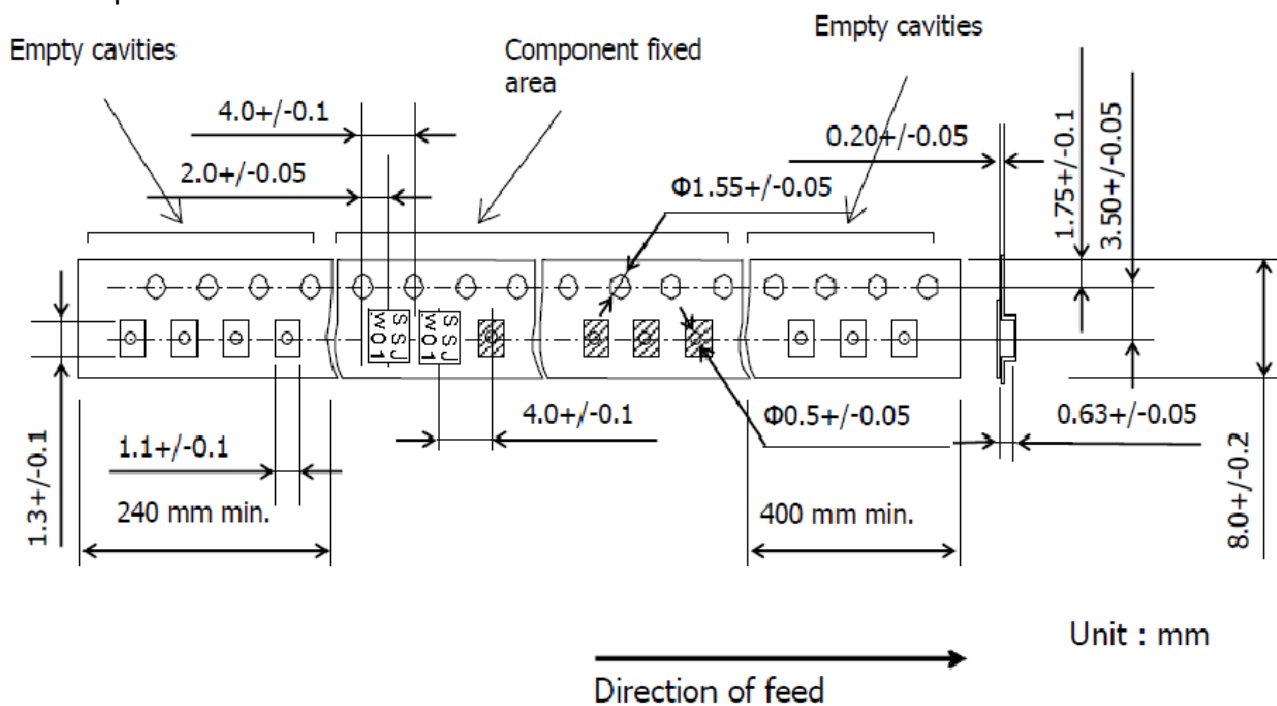
Color : Black

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 REFLOW PROFILE:

