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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 1880.0MHz — Model: TA1871A
Part No: MP07830 — Rev No: 1

A. MAXIMUM RATING:

Electrostatic **S**ensitive **D**evice (**ESD**)

Temperature range: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: Z_S = 50Ω
2. Terminating load impedance: Z_L = 50 // 10nHΩ

Parameters Description		Unit	Min.	Typ.	Max.	Remarks
Center Frequency		MHz	-	1880	-	
Insertion Loss (*1)	1850 ~ 1910MHz	dB	-	1.7	2.0	at 25°C
		dB	-	-	2.8	
Amplitude ripple	1850 ~ 1910MHz	dB	-	0.7	1.1	at 25°C
		dB	-	-	1.9	
VSWR(Input)	1850 ~ 1910MHz	-	-	1.8	2.2	
VSWR(Output)	1850 ~ 1910MHz	-	-	1.8	2.2	
Attenuation:						
DC ~ 1570MHz		dB	20	32	-	
1570 ~ 1580MHz		dB	20	34	-	
1930 ~ 1990MHz		dB	17	20	-	
1990 ~ 2400MHz		dB	20	26	-	
2400 ~ 3000MHz		dB	20	31	-	
3000 ~ 4000MHz		dB	15	30	-	
4000 ~ 5550MHz		dB	10	24	-	
5550 ~ 5730MHz		dB	10	24	-	
5730 ~ 6000MHz		dB	10	23	-	

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

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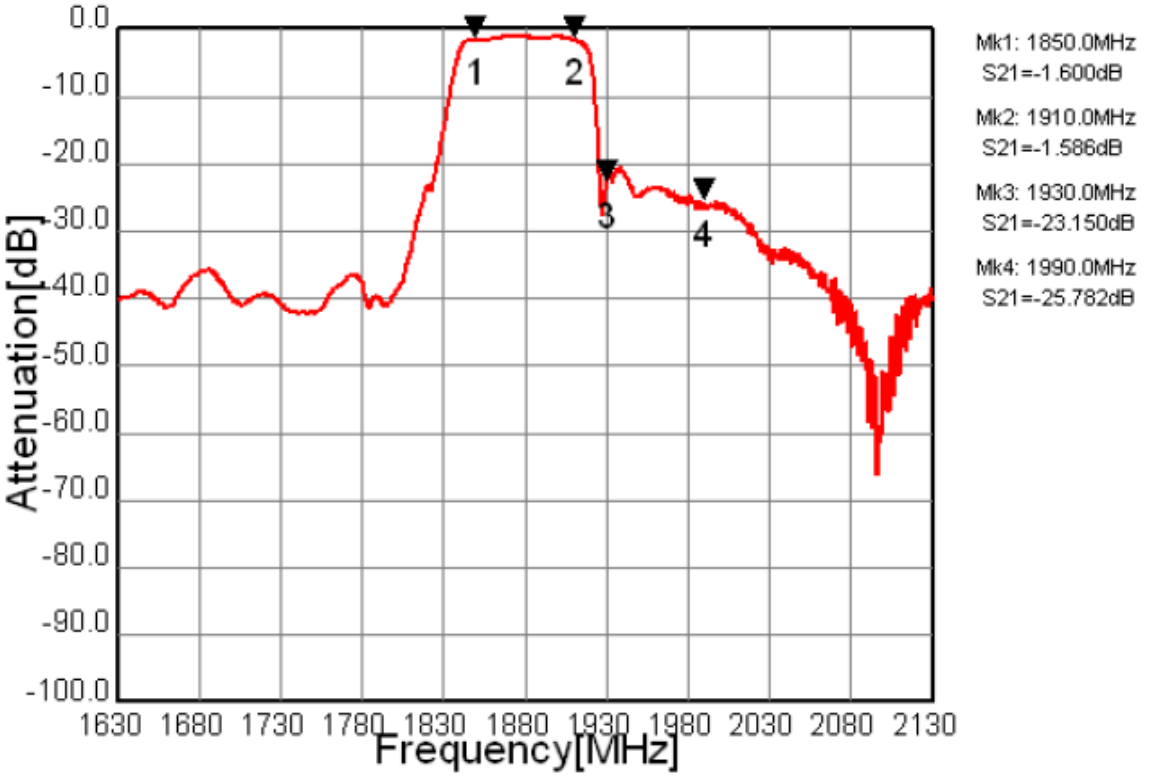
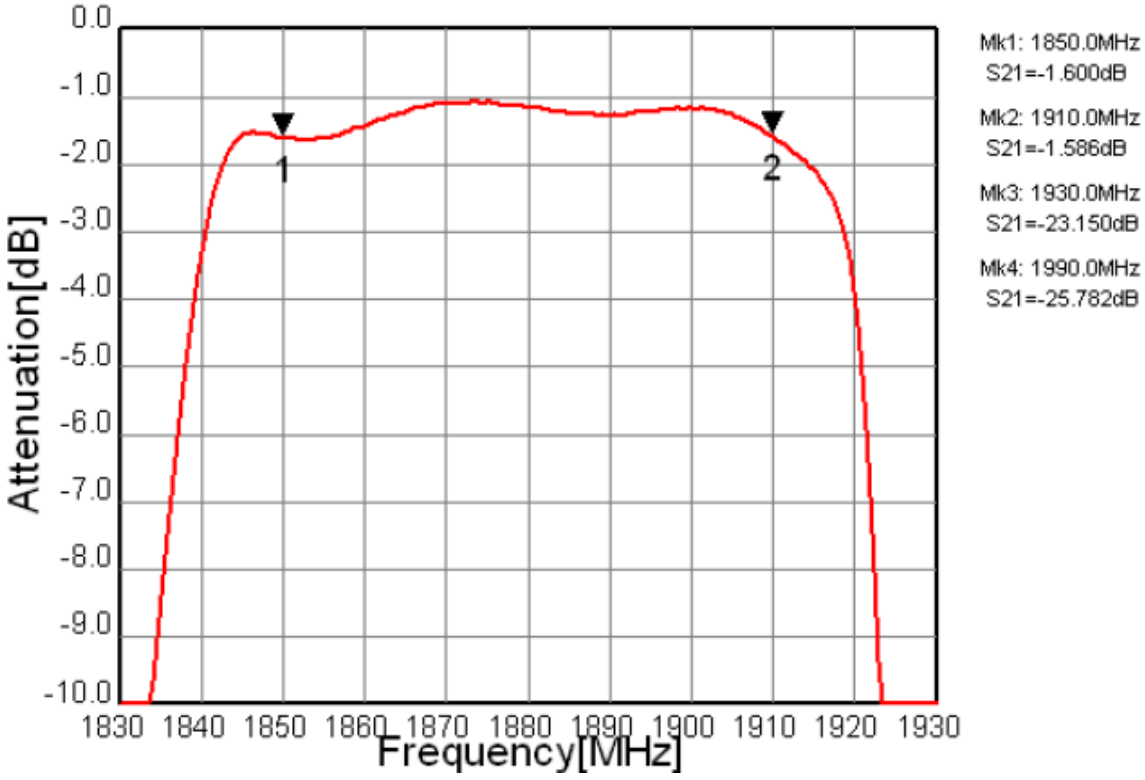
C. FREQUENCY CHARACTERISTICS:

1. Pass-band



2. In-band



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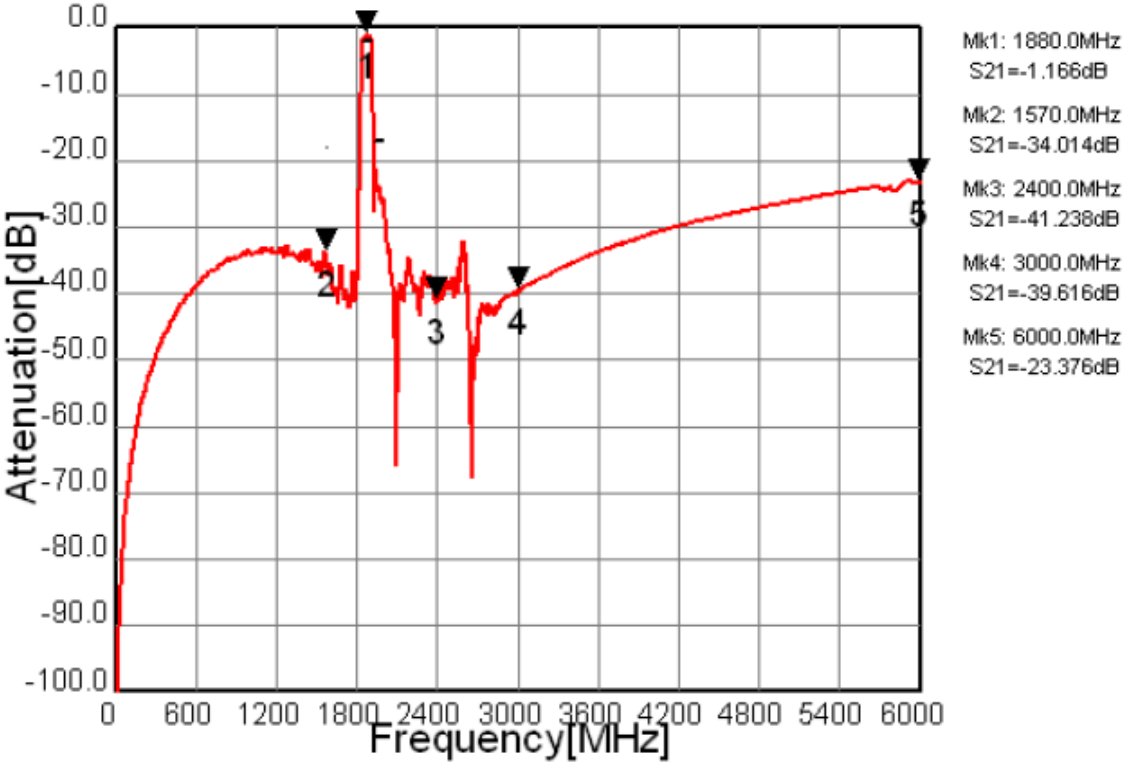
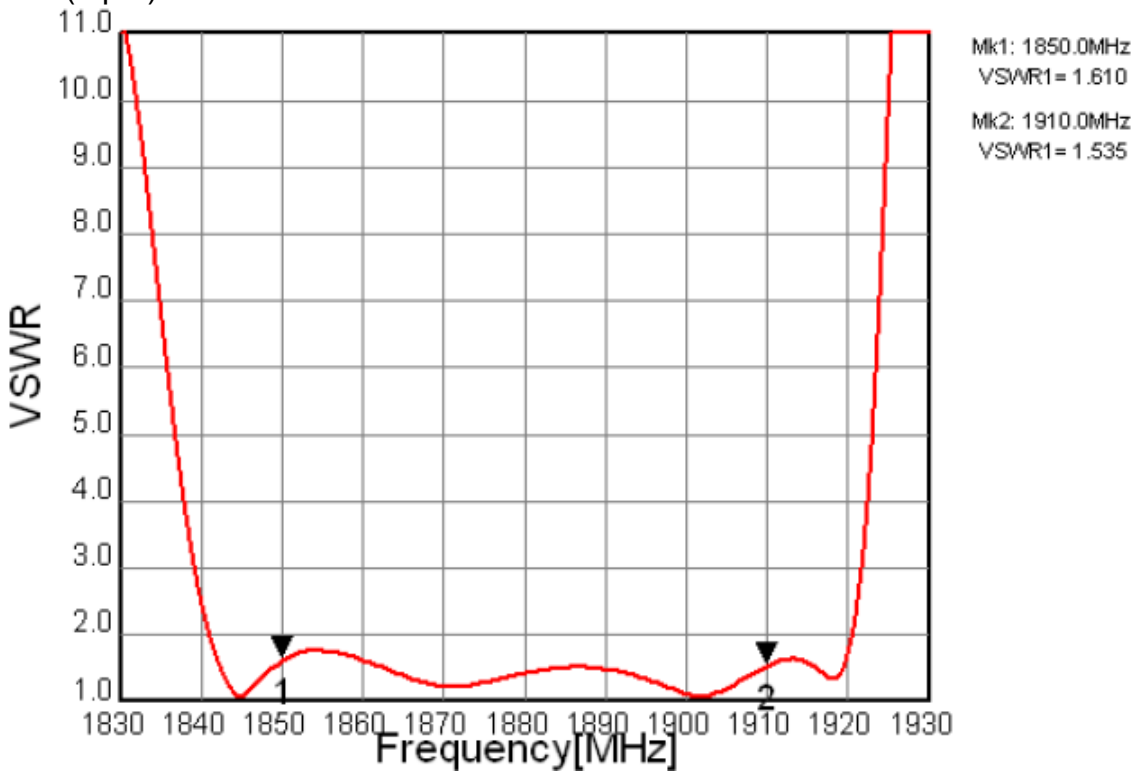
3. Wide-band



4. VSWR (Input)



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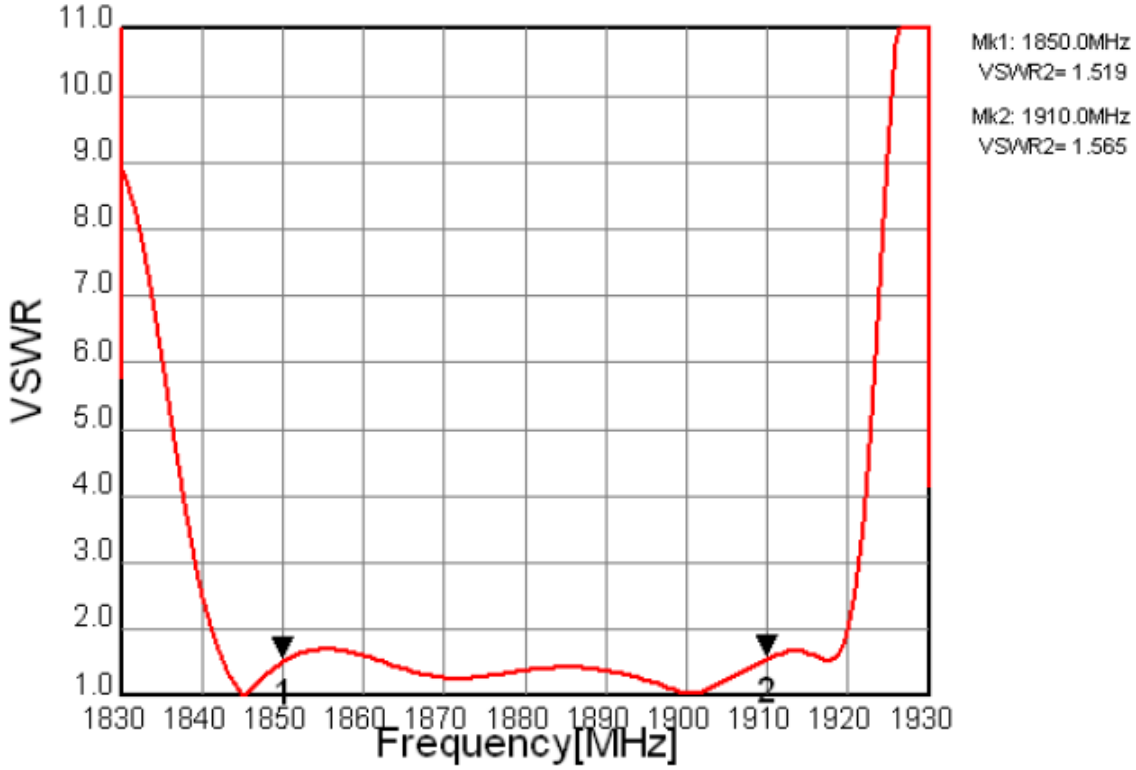
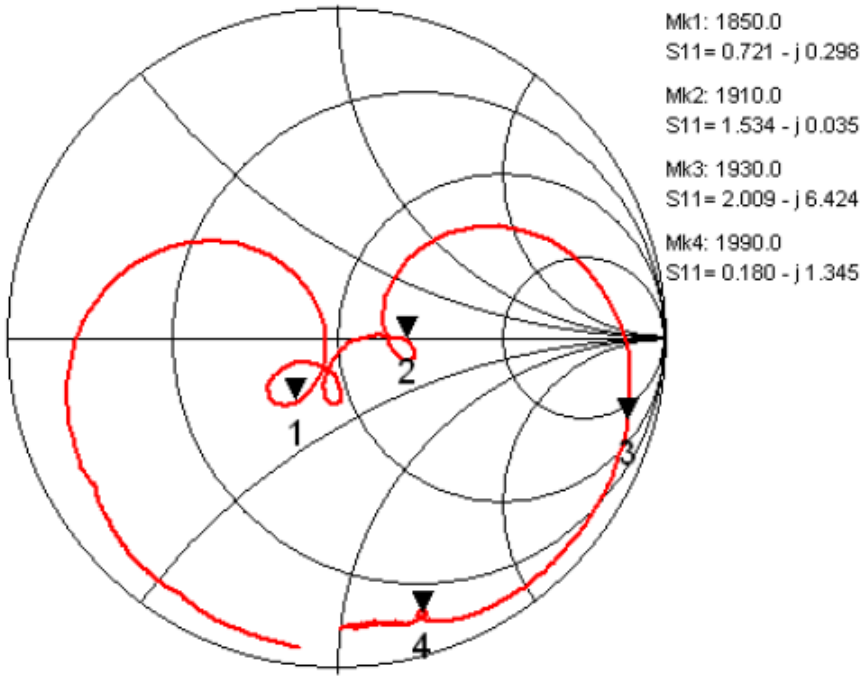
5. VSWR (Output)



6. Input Impedance



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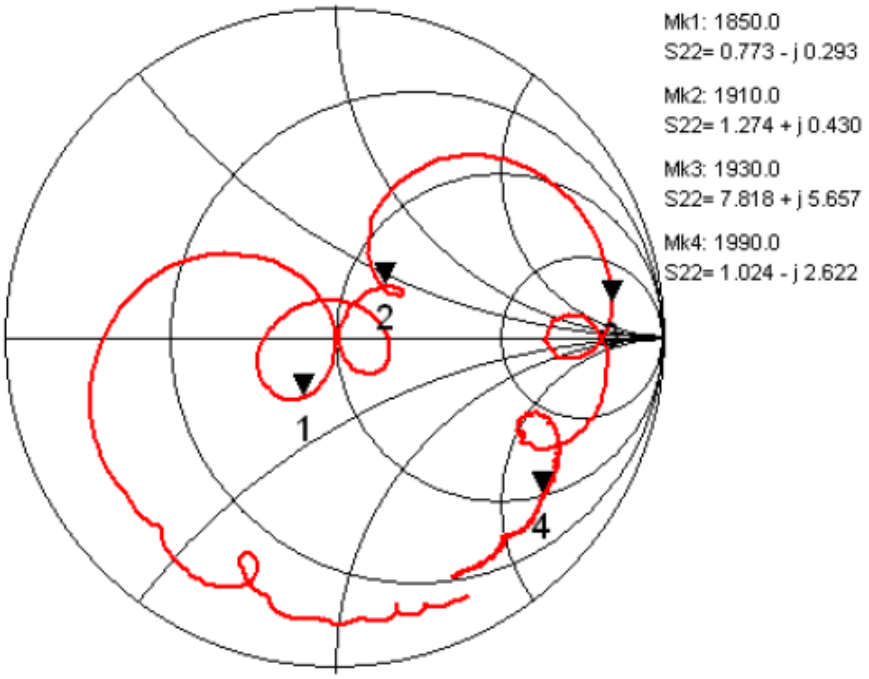
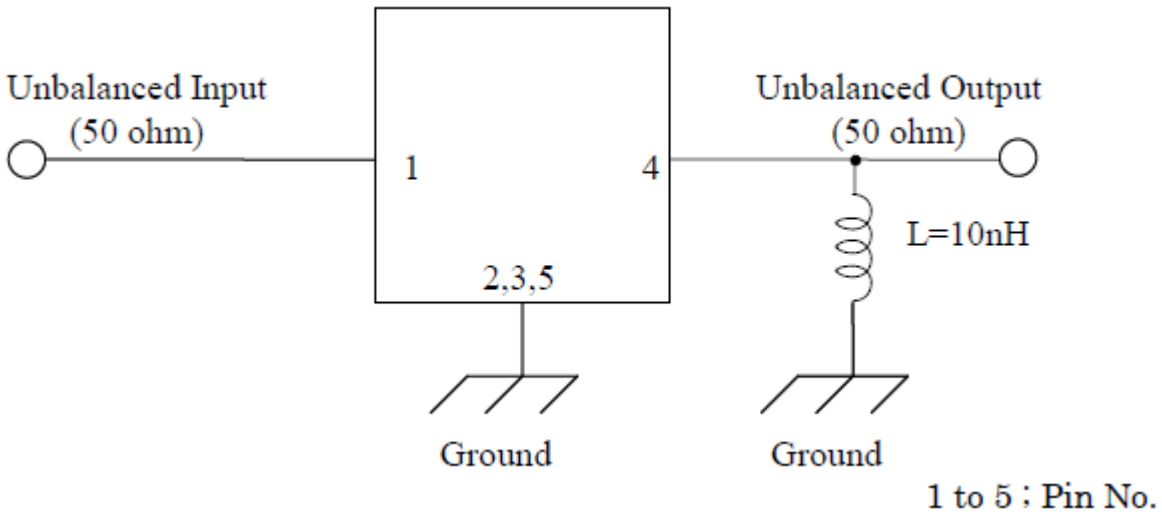
7. Output Impedance



D. MEASUREMENT CIRCUIT:



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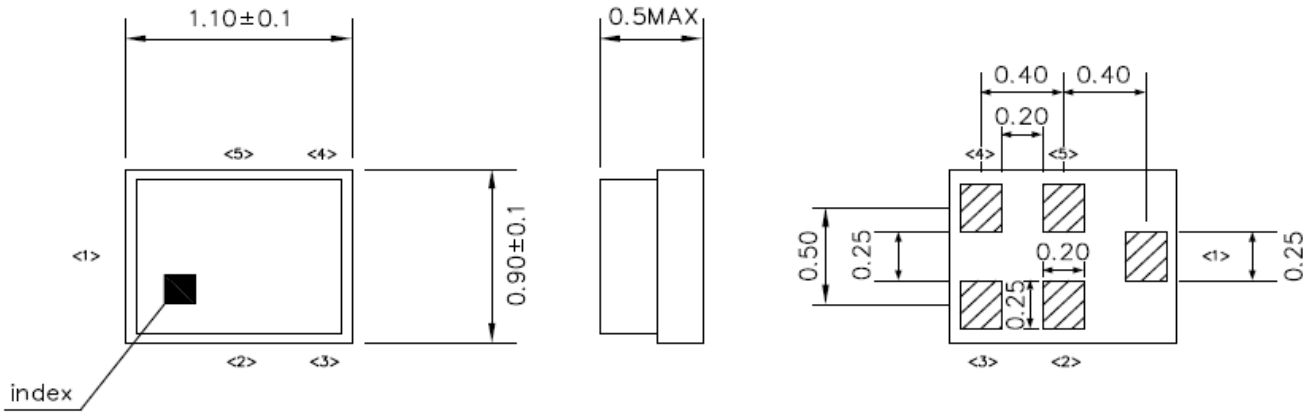
E. OUTLINE DRAWING:

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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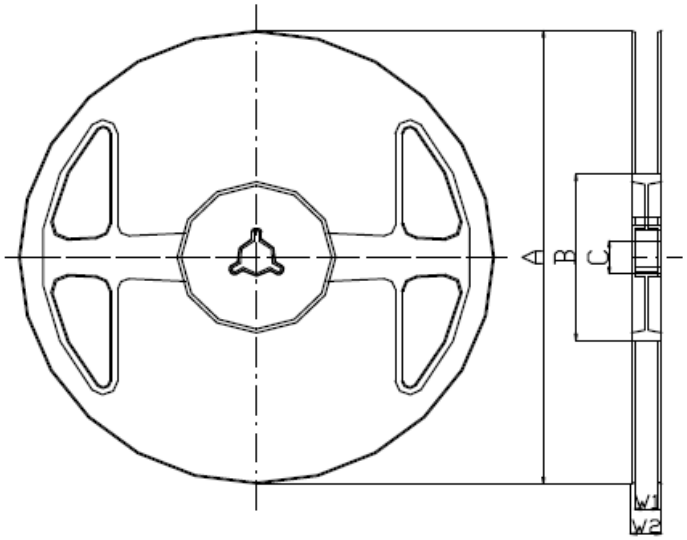
F. PACKING:

1. Reel Dimension

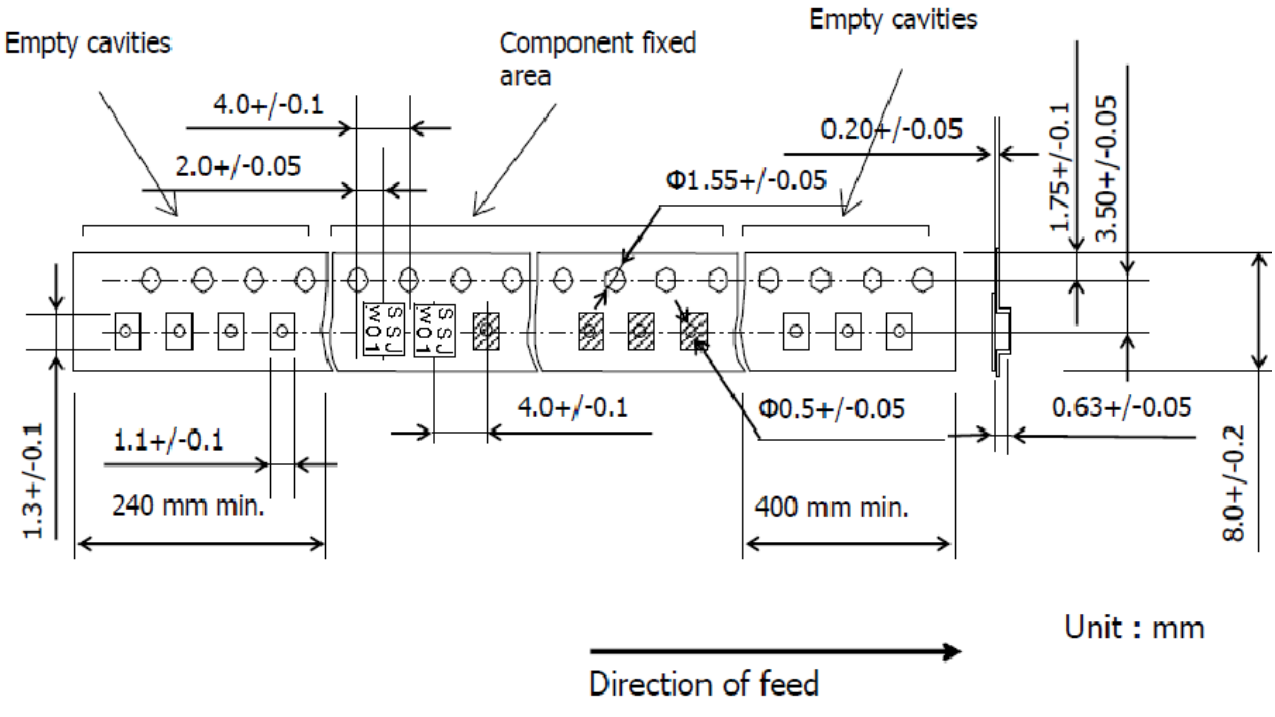


Materials of Reel
Material : Polystyrene + Carbon
Color : Black
Surface resistance (reference value) : $10^9\Omega$/sq Max.

Unit : mm

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

2. Tape Dimension



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G. RECOMMENDED REFLOW PROFILE: