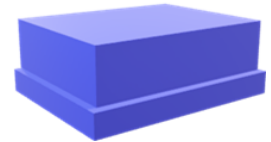


SF2547LA

**2655 MHz
SAW Filter**



SM1109-5

MAXIMUM RATING:

- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +125 °C
- Maximum Input Power: +10 dBm
- Maximum DC Voltage: +/-5 V
- Moisture Sensitivity Level: 1
- ESD 50V(MM) 100V(HBM)

ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50//5.1nH \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50//5.1nH \Omega$ (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency F_c		MHz	-	2655	-
Insertion Loss(*1) (2620~2690 MHz) IL		dB	-	2.5	3.0
Amplitude Ripple (2620~2690 MHz)		dB	-	0.8	1.5
VSWR	Input (2620~2690 MHz)	-	-	1.6	2.0
	Output (2620~2690 MHz)	-	-	1.8	2.2
Attenuation (Reference level from 0 dB)					
1~2400 MHz		dB	30	36	-
45 MHz		dB	50	65	-
2400~2500 MHz		dB	32	37	-
2500~2570 MHz		dB	35	38	-
2570~2600 MHz		dB	2	4	-
2775~6000 MHz		dB	15	30	-
7620~7830 MHz		dB	15	25	-
7860~8000 MHz		dB	15	24	-

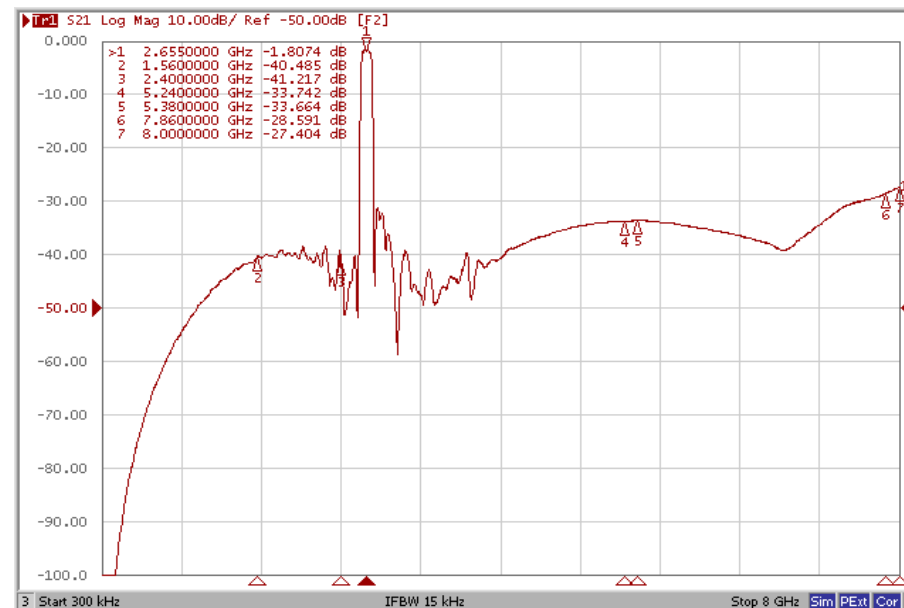
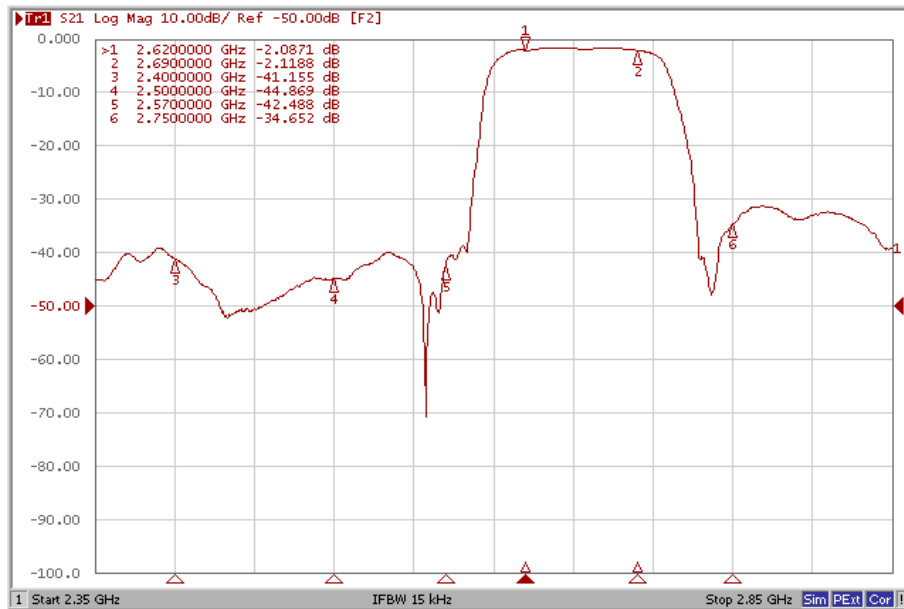
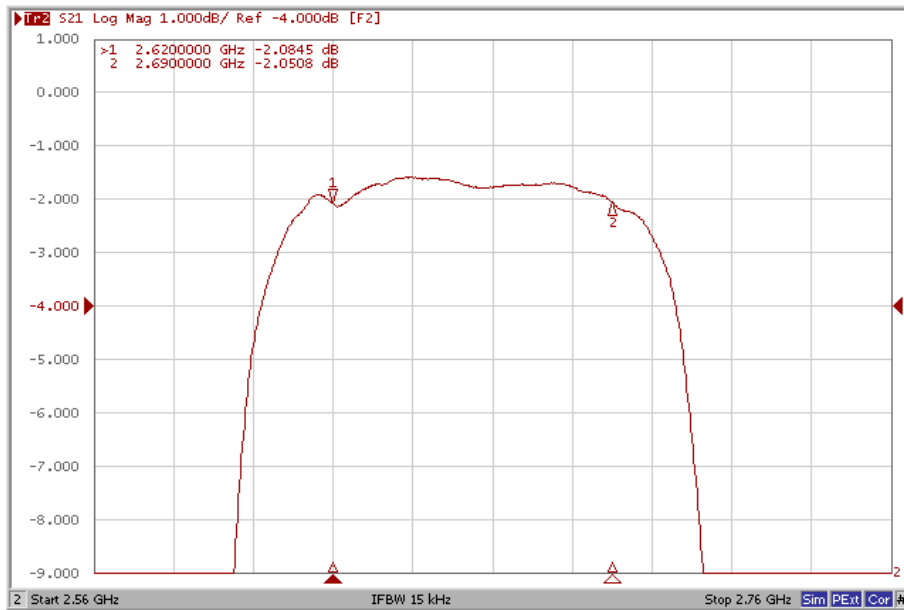
(*1) Specification of insertion loss includes loss that comes from the test board.



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

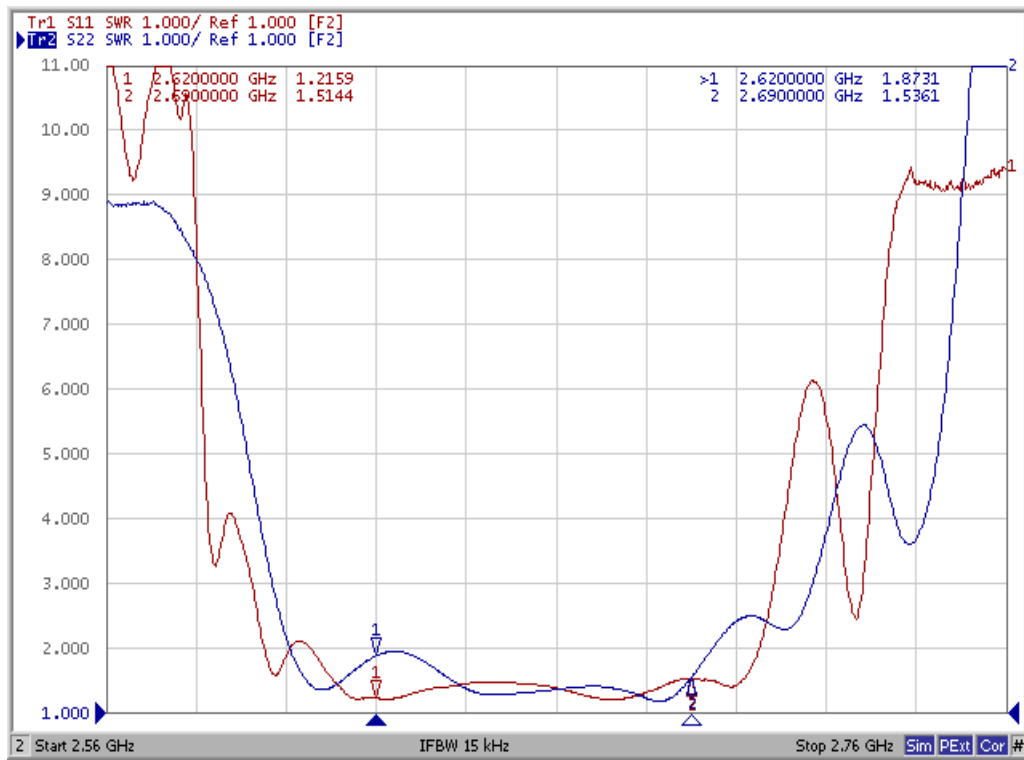
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTICS:

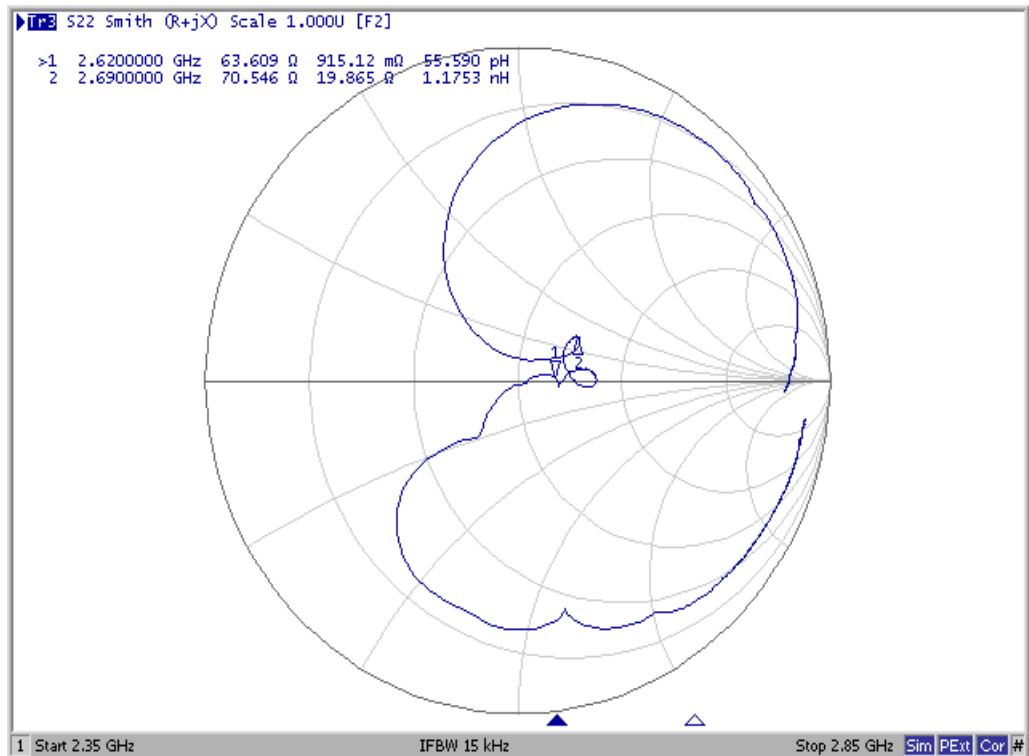
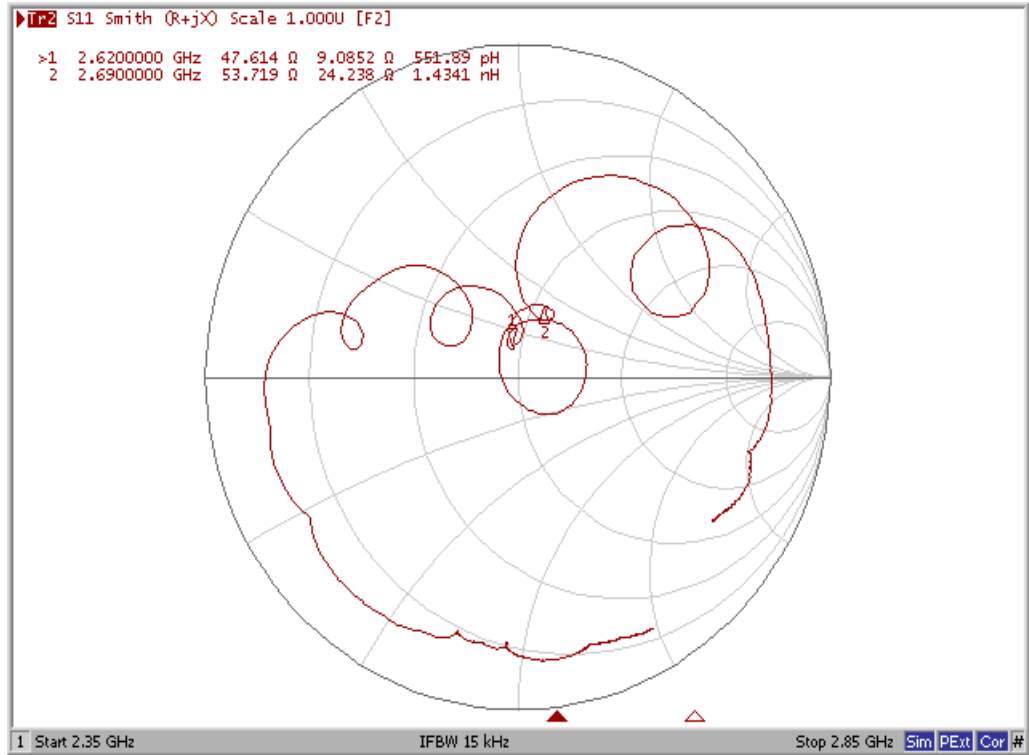


Reflection Functions:

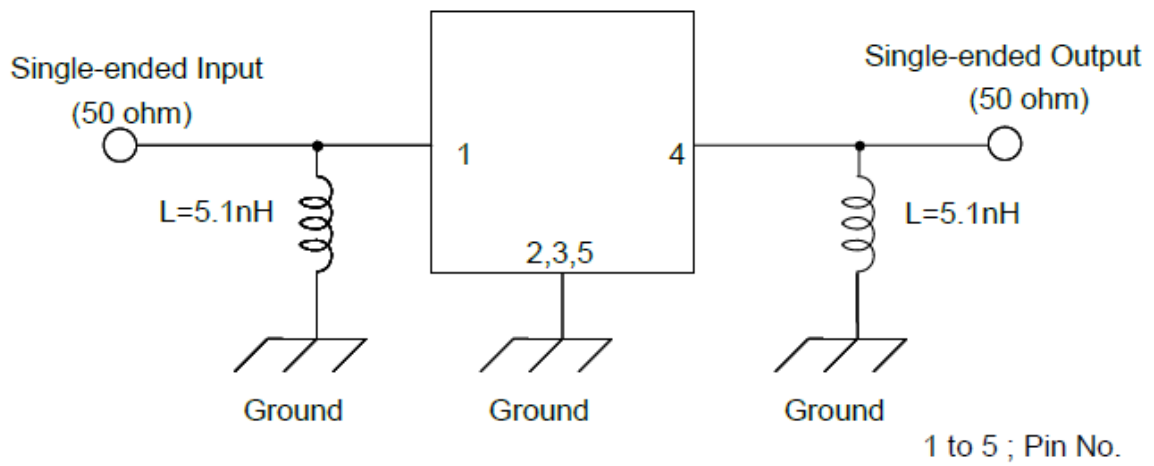
VSWR



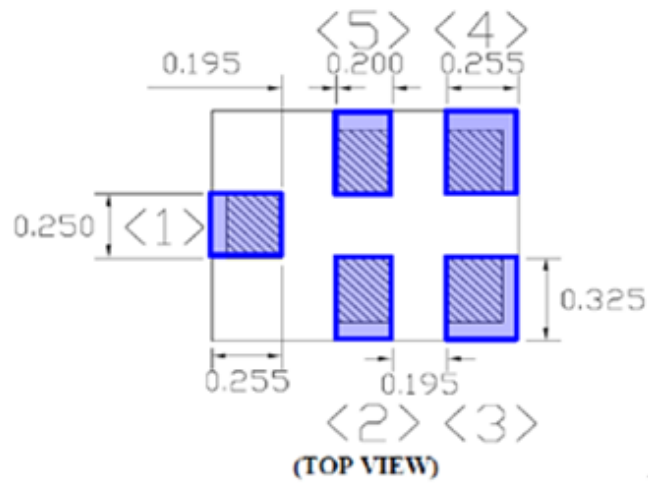
Smith Chart



MEASUREMENT CIRCUIT:

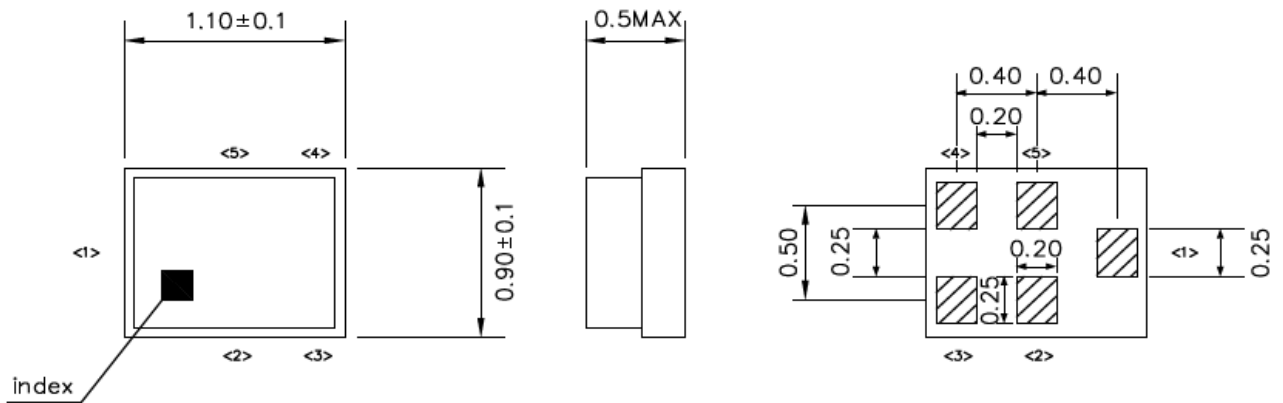


PCB Footprint:



OUTLINE DRAWING:

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

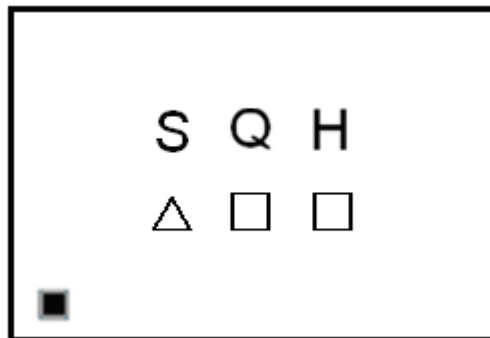


Unit : mm

Pin Configuration

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

Top View (Mass Production):

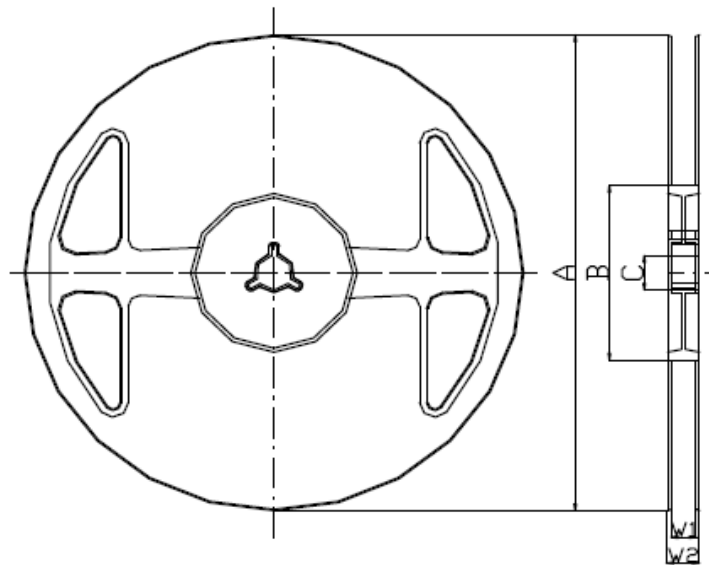


\triangle : Date Code

\square : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

PACKING:
1. REEL DIMENSION

Reel Count"
7" = 5000



Materials of Reel

Material : Polystyrene + Carbon

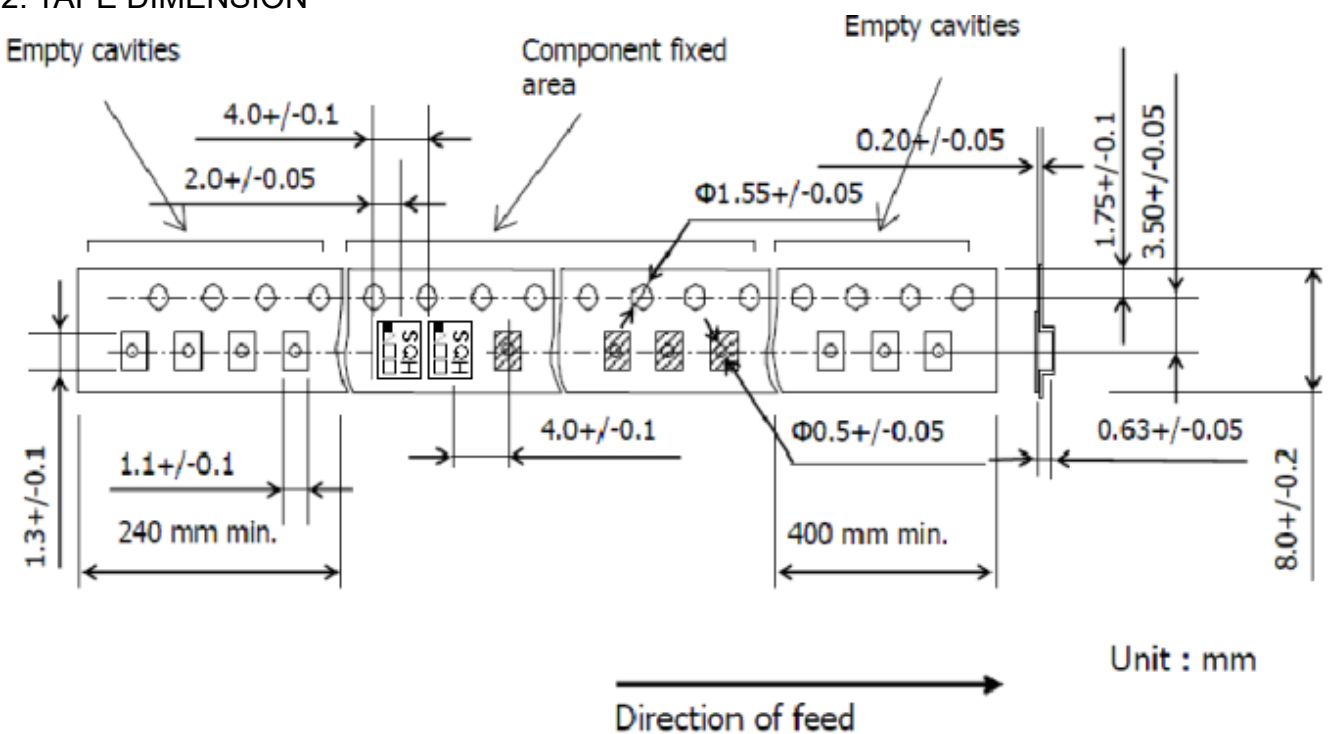
Color : Black

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

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 (20~40sec).
4. Time: 2 times.

