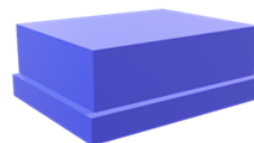


**SF2532LA**

**942.5 MHz  
SAW Filter**



**SM1109-5**

#### MAXIMUM RATING:

- Maximum Input Power: 10 dBm
- Maximum DC Voltage: +/-5 V
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -40 °C to +100 °C
- Moisture Sensitivity Level: Level 1 (MSL 1)
- ESD: 100 V(MM), 200 V(HBM)
- AEC-Q200 Qualified

#### ELECTRICAL CHARACTERISTICS:

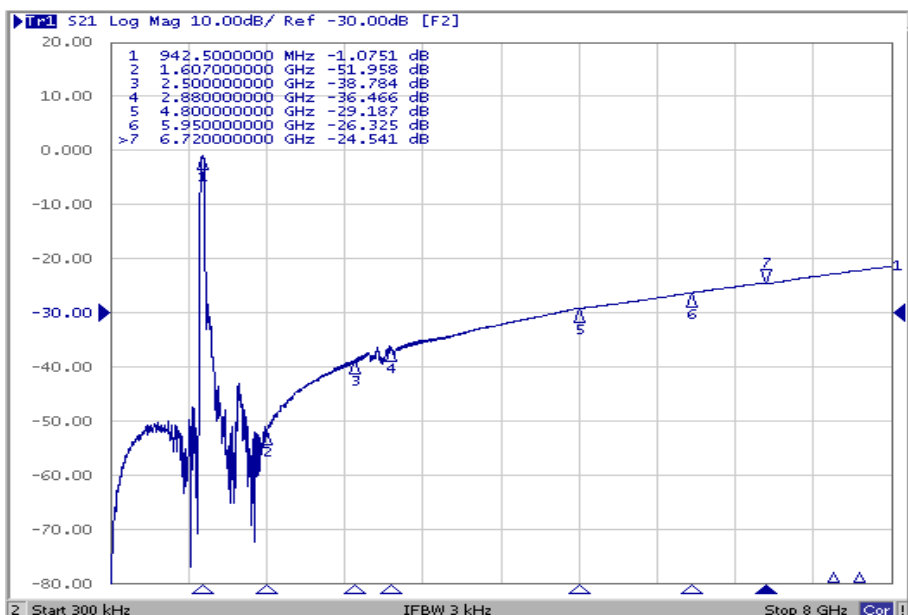
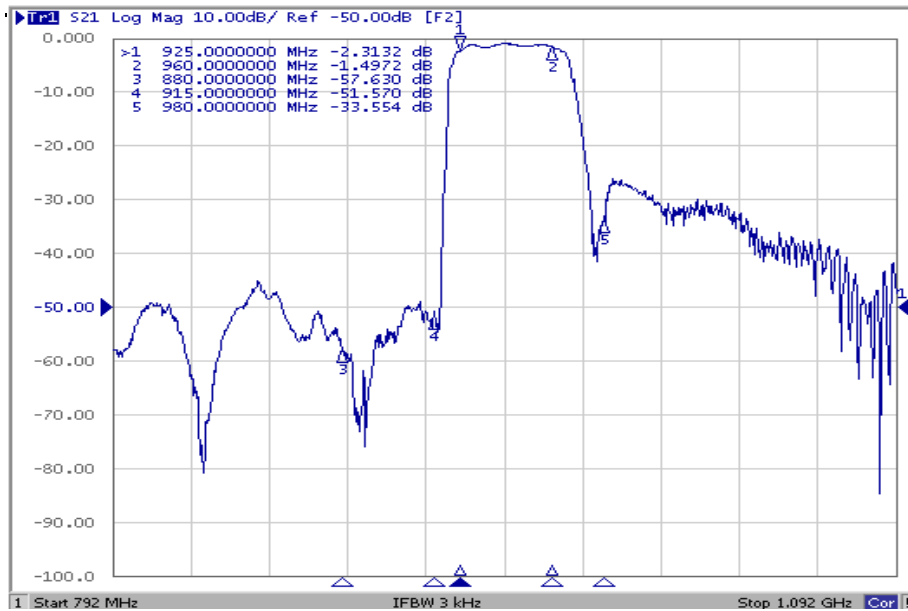
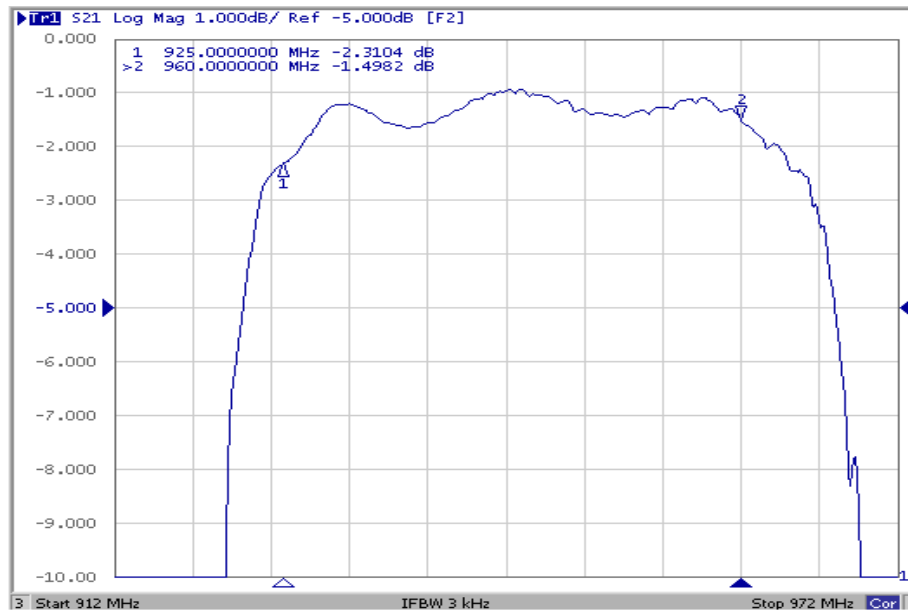
Terminating source impedance:  $Z_s = 50 \Omega$  (Single-ended)

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

Parameters Description	Unit	Min.	Typ.	Max.
<b>Center Frequency</b> <b>F<sub>c</sub></b>	MHz	-	942.5	-
<b>Insertion Loss</b> (925~960 MHz) <b>IL</b>	dB(*1)	-	2.0	3.2
<b>Amplitude Ripple</b> (925~960 MHz)	dB	-	1.3	2.5
<b>VSWR Input</b> (925~960 MHz)	-	-	1.9	2.5
<b>VSWR Output</b> (925~960 MHz)	-	-	2.0	2.5
<b>Attenuation</b> (Reference level from 0 dB)				
880 ~ 915 MHz	dB	45	48	-
980 ~ 1558 MHz	dB	13	26	-
1559 ~ 1607 MHz	dB	40	51	-
1850 ~ 1920 MHz	dB	35	44	-
2400 ~ 2500 MHz	dB	30	38	-
2775 ~ 2880 MHz	dB	28	36	-
3700 ~ 3840 MHz	dB	25	32	-
4625 ~ 4800 MHz	dB	20	30	-
4900 ~ 5950 MHz	dB	18	27	-
5550 ~ 5725 MHz	dB	18	27	-
6475 ~ 6720 MHz	dB	15	25	-
7400 ~ 7680 MHz	dB	15	23	-

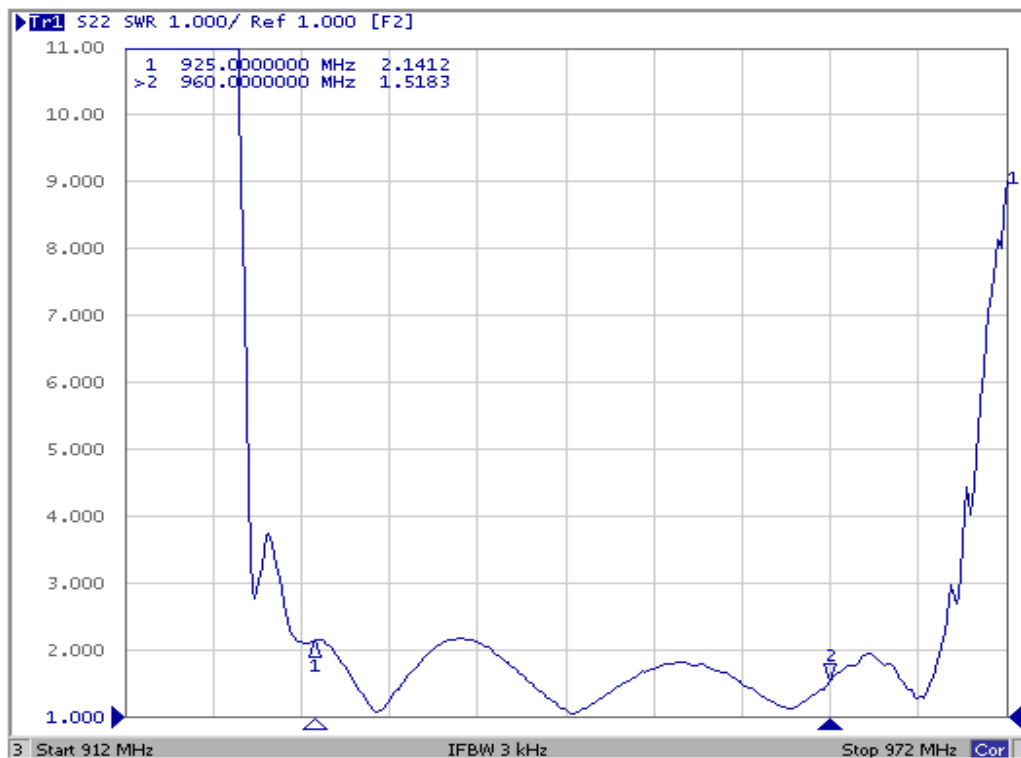
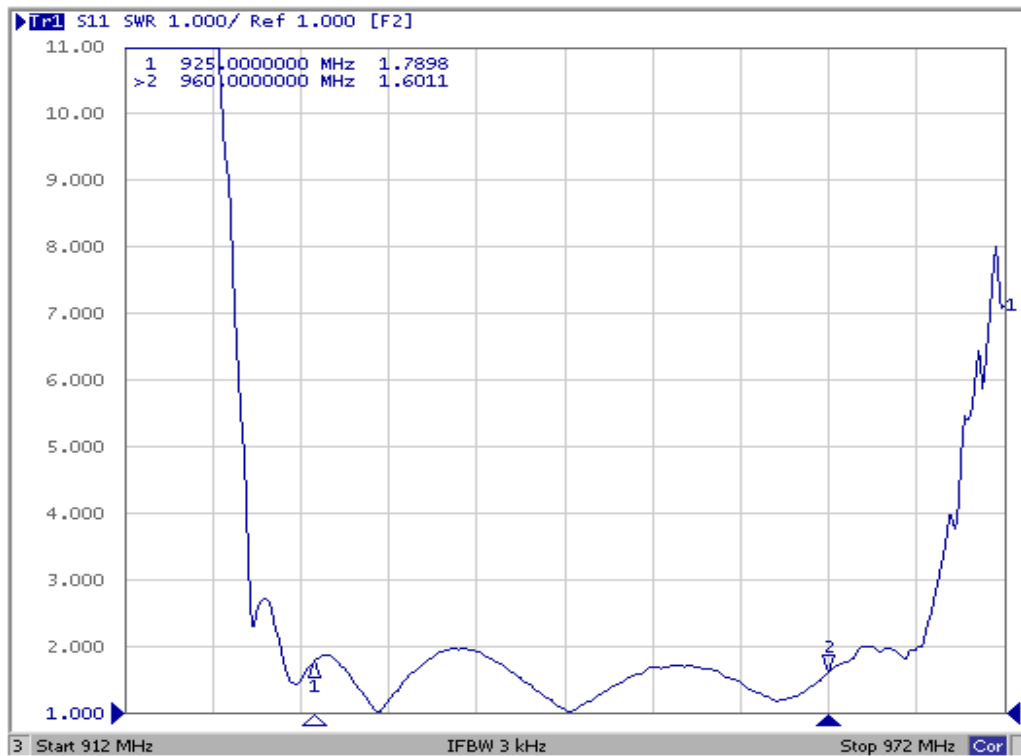
(\*1) Specification of insertion loss excludes loss that comes from the test board.

## FREQUENCY CHARACTERISTICS:

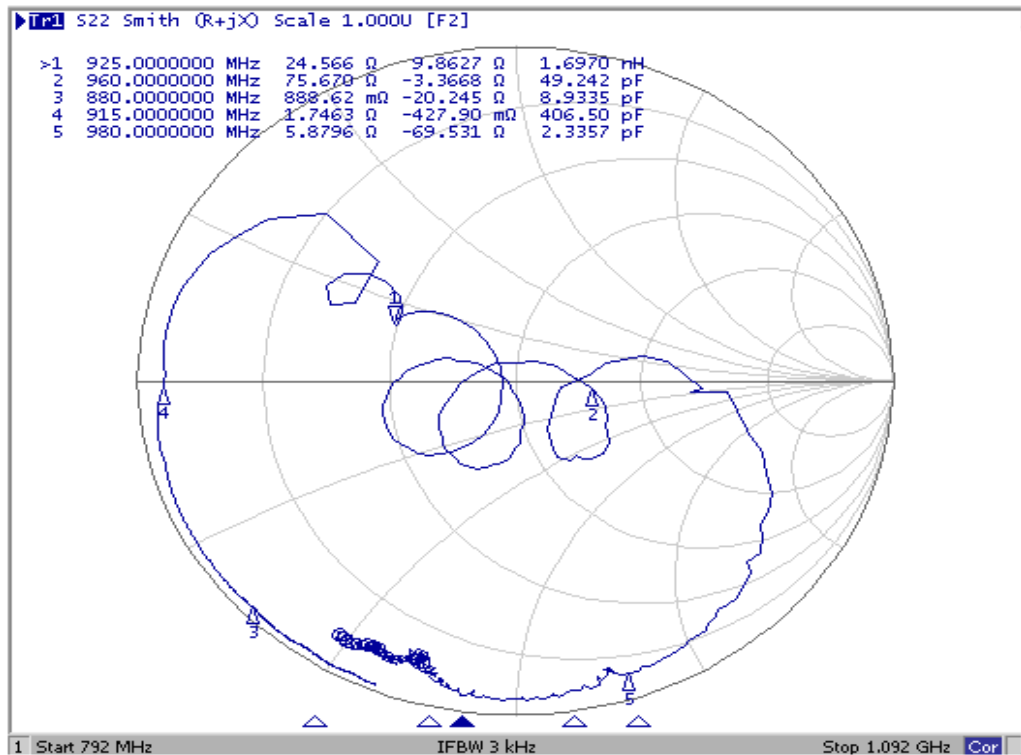
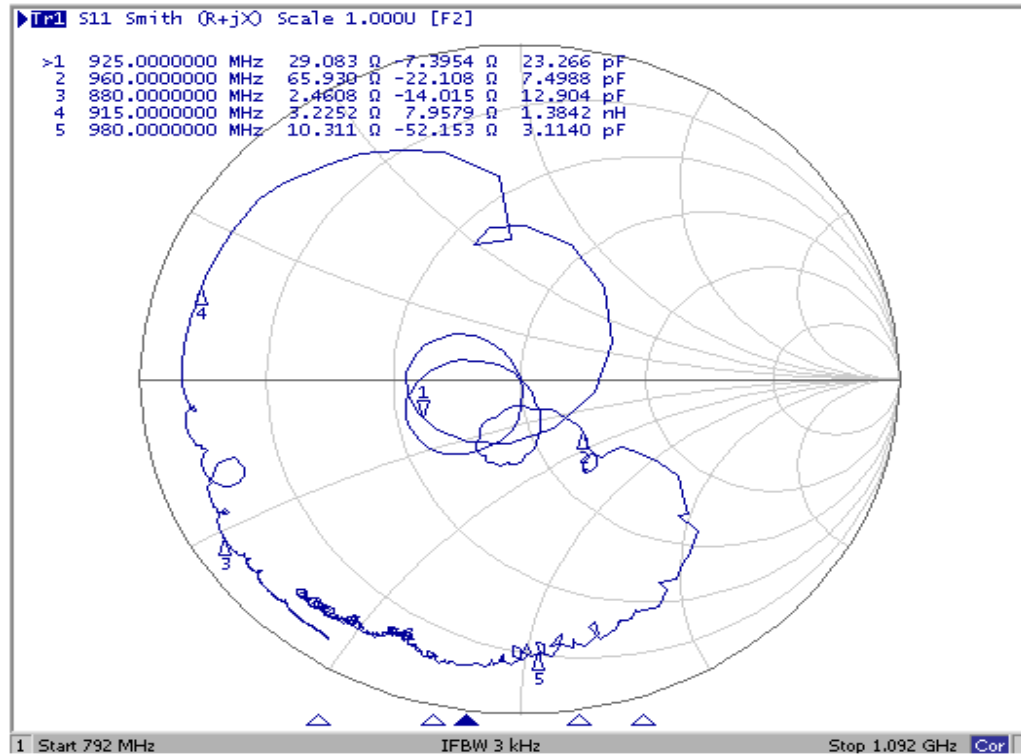


## Reflection Functions:

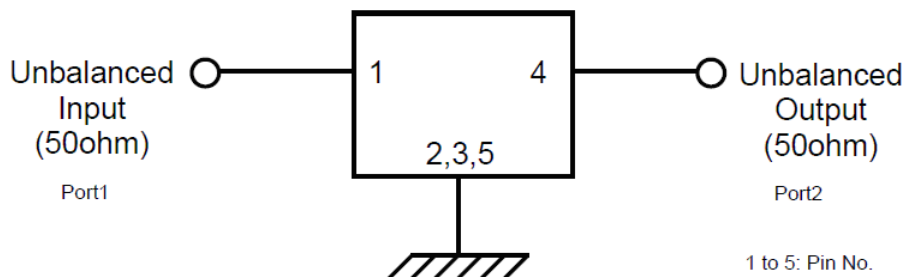
### VSWR



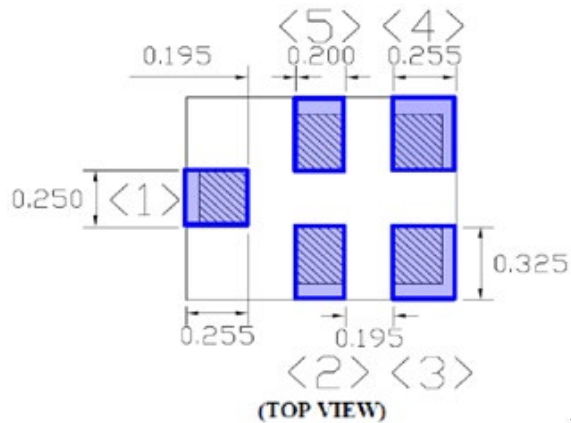
## Smith Chart



## MEASUREMENT CIRCUIT:

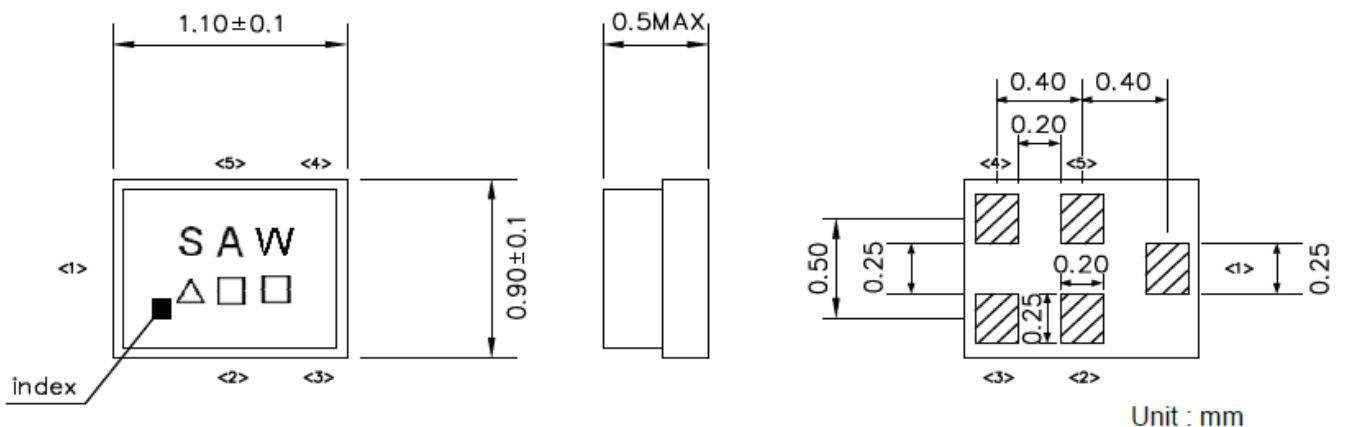


## PCB Footprint:



## OUTLINE DRAWING (Mass Production):

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



## Pin Configuration

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

△ : Date Code

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

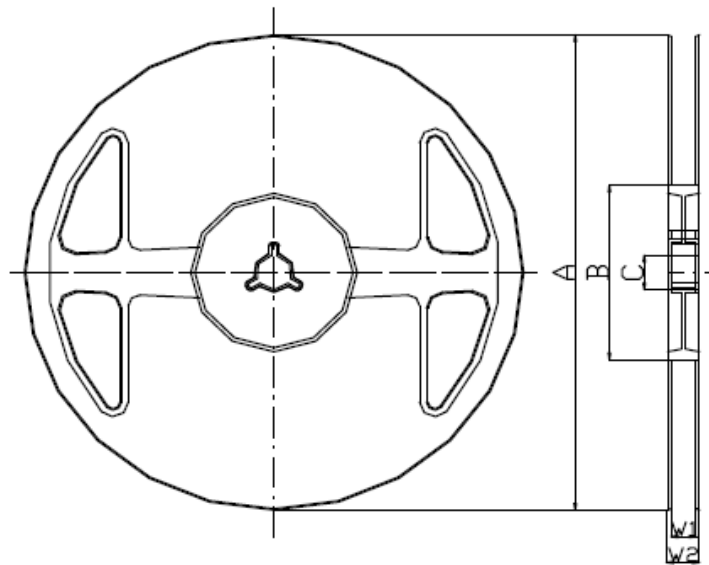
Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

**PACKING:****1. REEL DIMENSION**

Reel Count:

7" = 5000

**Materials of Reel**

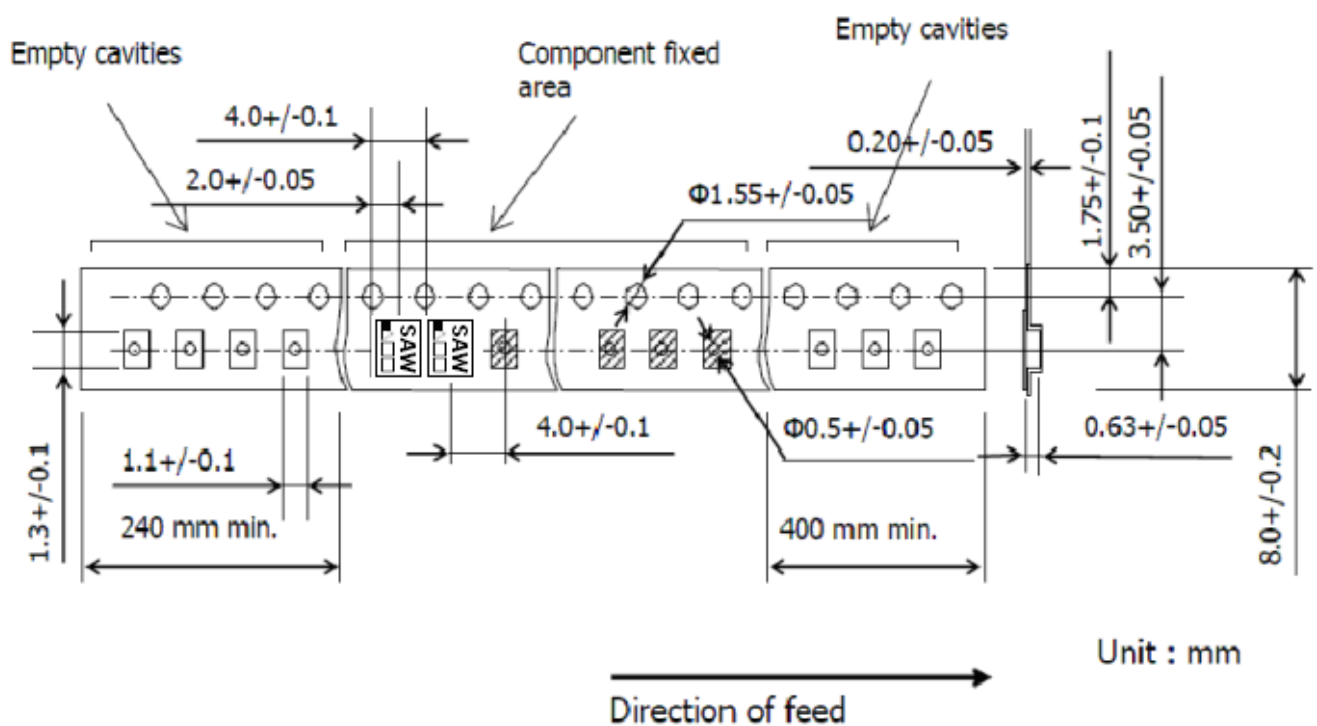
Material : Polystyrene + Carbon

Color : Black

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

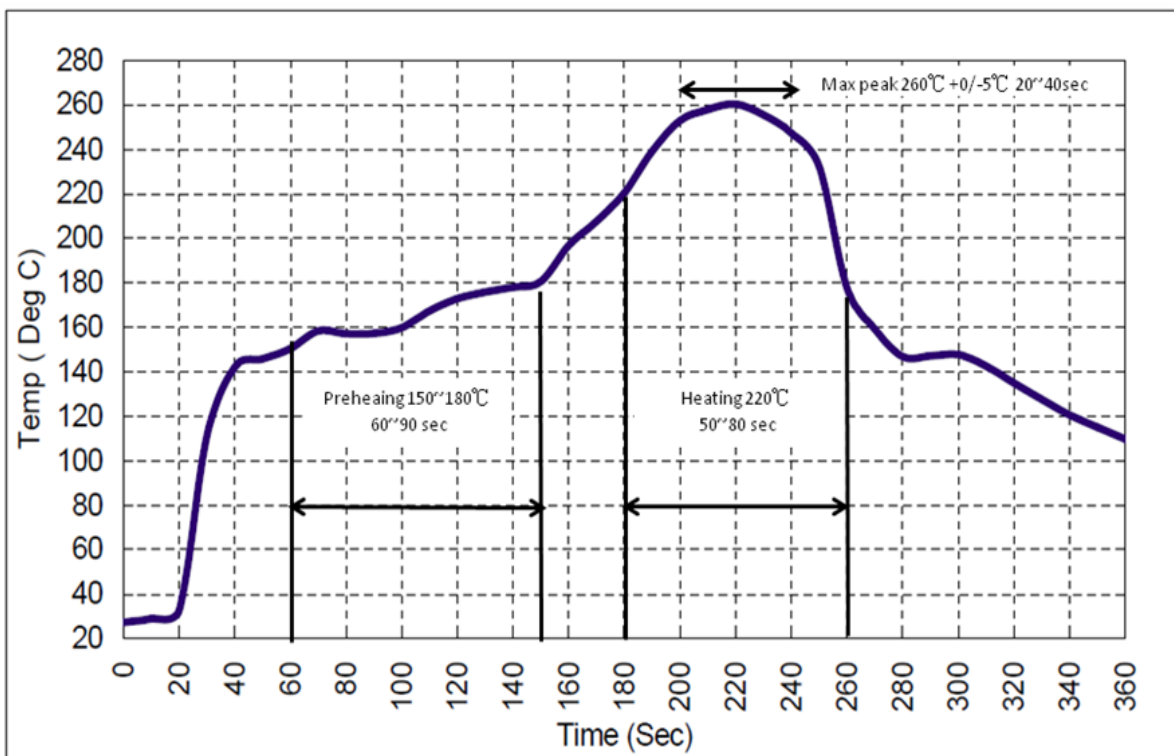
Unit : mm

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

**2. TAPE DIMENSION**

### 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: 3 times.



**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

#### NOTES:

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.