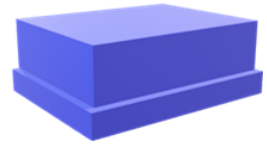


SF2532LA

**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:

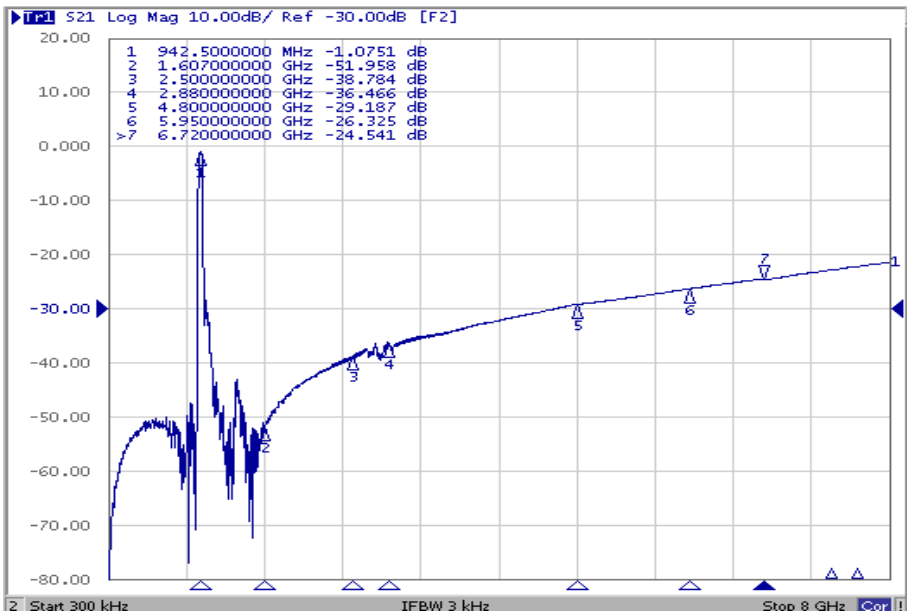
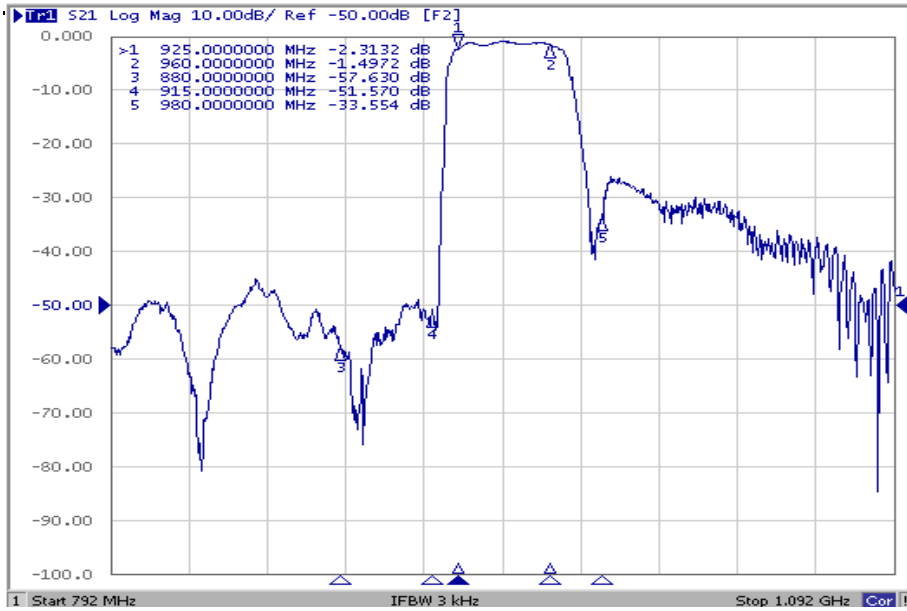
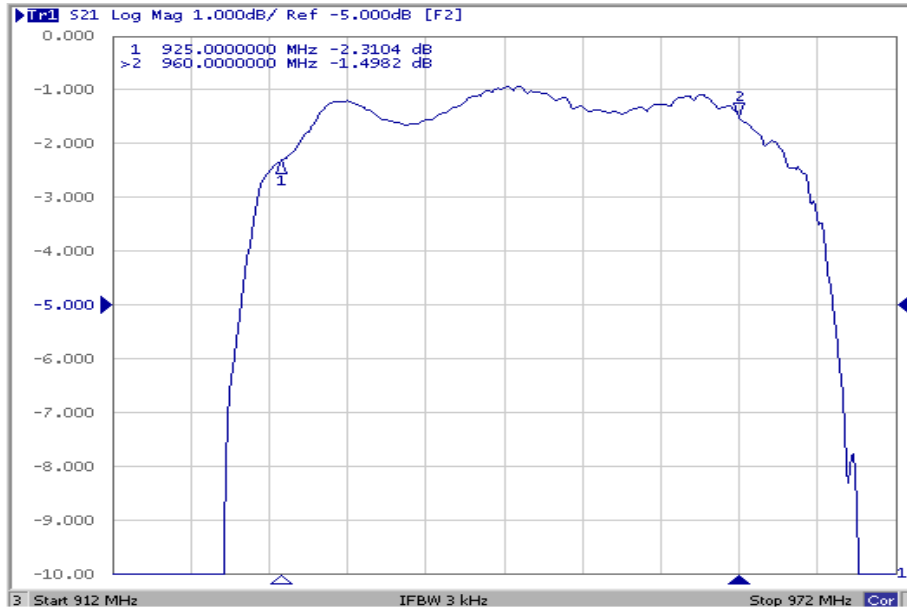
Terminating source impedance: $Z_s = 50 \Omega$ (Single-ended)

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

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	942.5	-
Insertion Loss (925~960 MHz) IL	dB(*1)	-	2.0	3.2
Amplitude Ripple (925~960 MHz)	dB	-	1.3	2.5
VSWR Input (925~960 MHz)	-	-	1.9	2.5
VSWR Output (925~960 MHz)	-	-	2.0	2.5
Attenuation (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	-

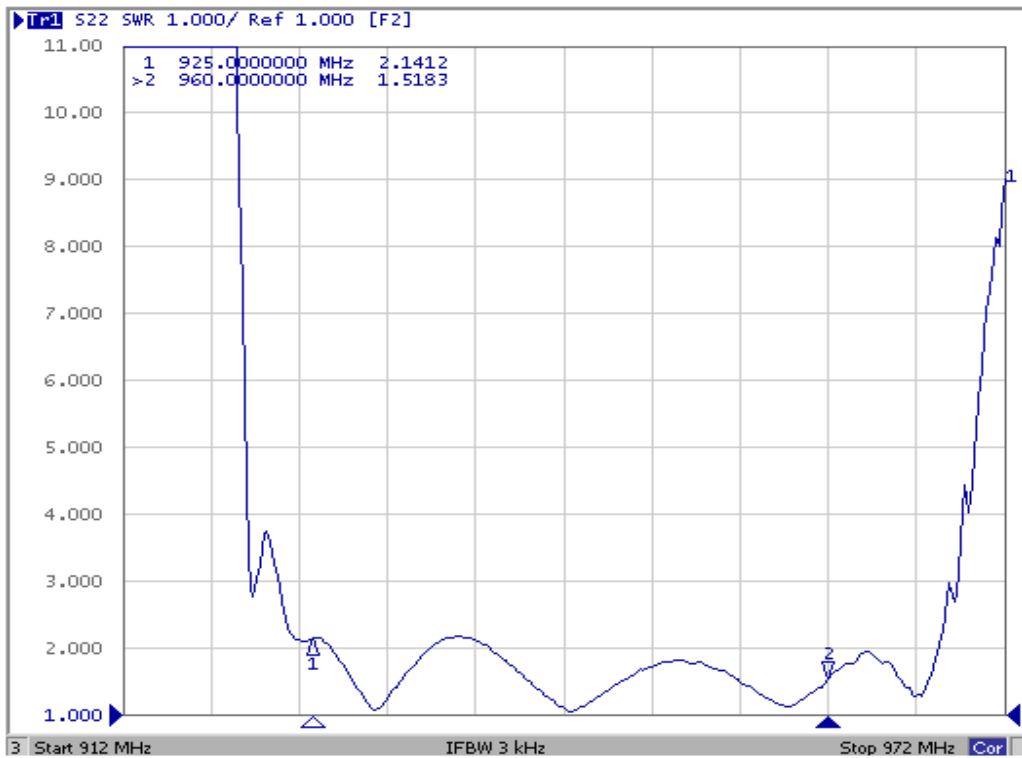
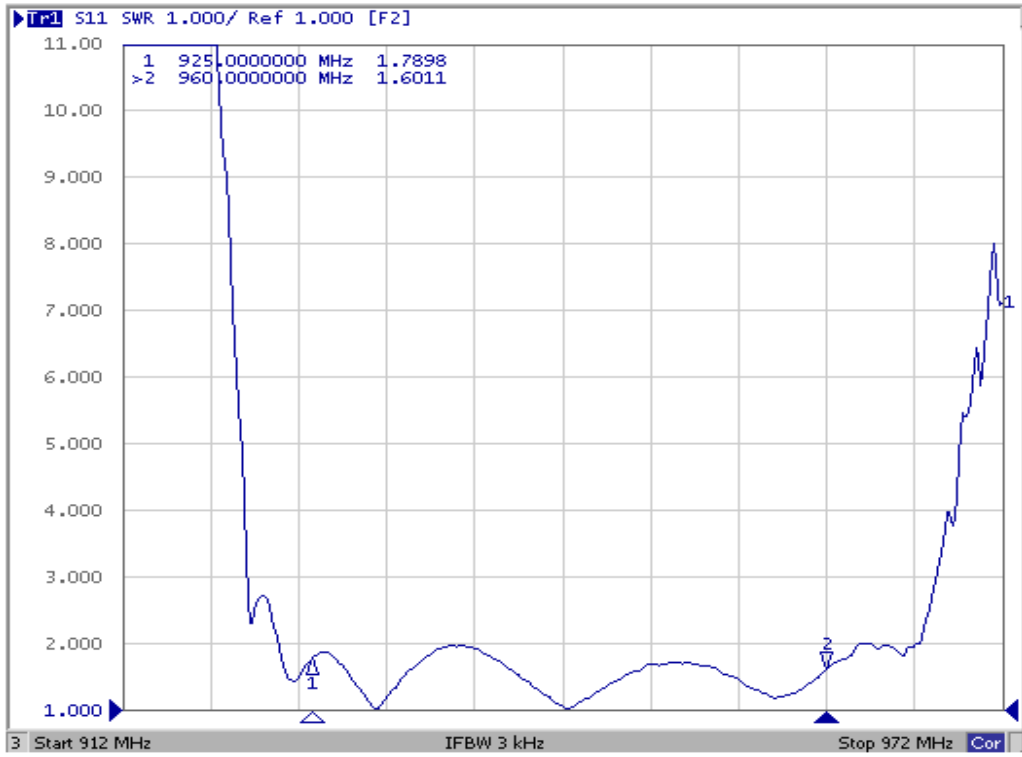
(*1) Specification of insertion loss excludes loss that comes from the test board.

FREQUENCY CHARACTERISTICS:

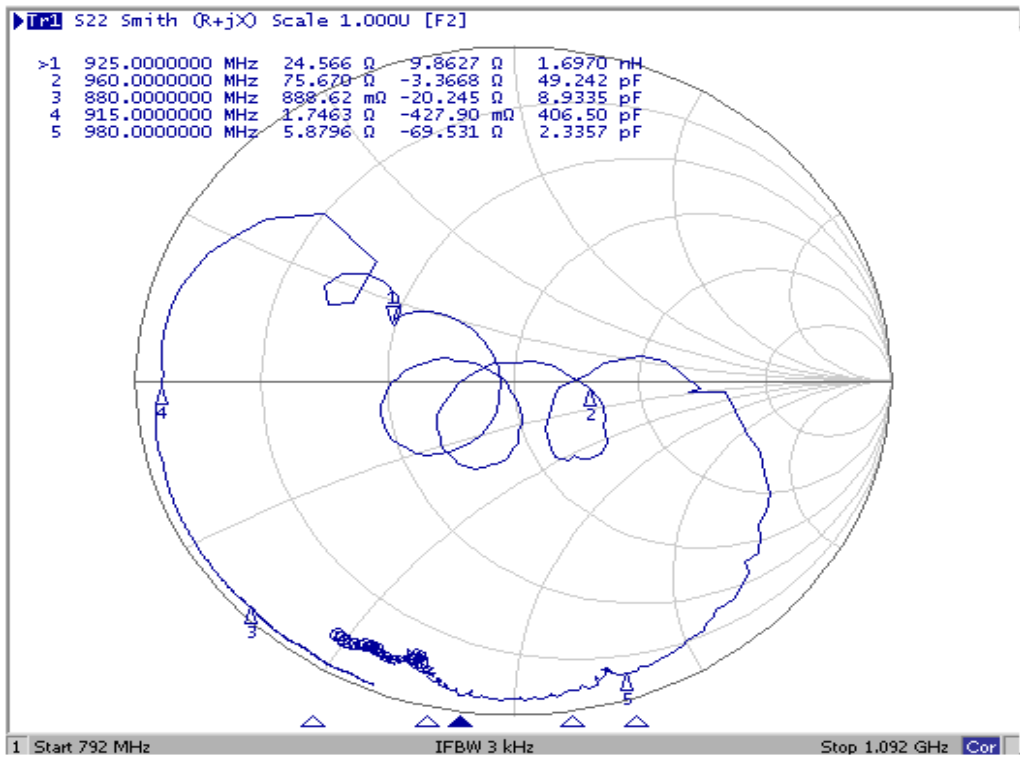
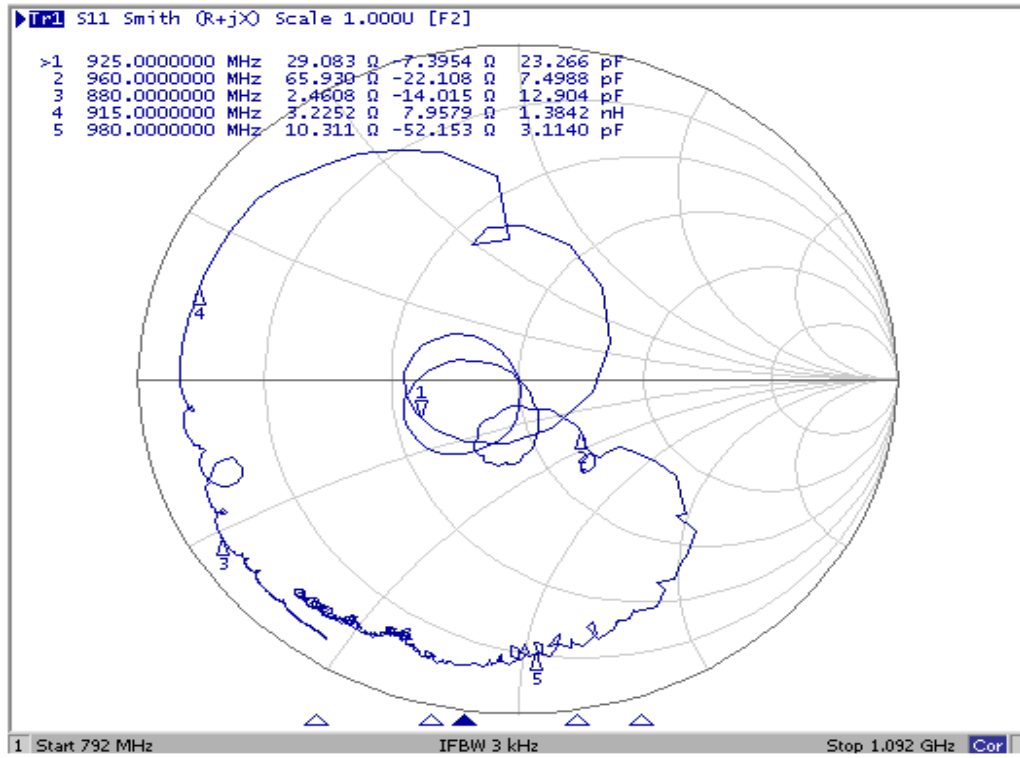


Reflection Functions:

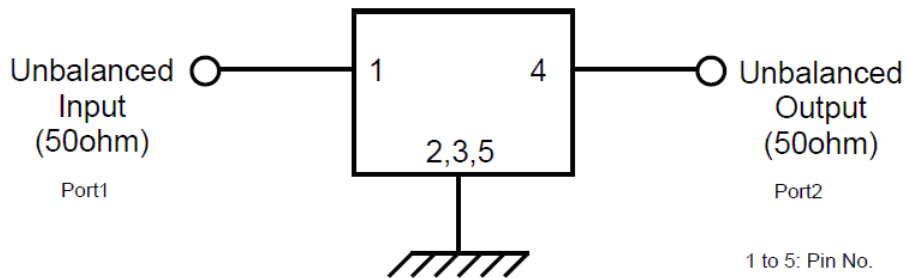
VSWR



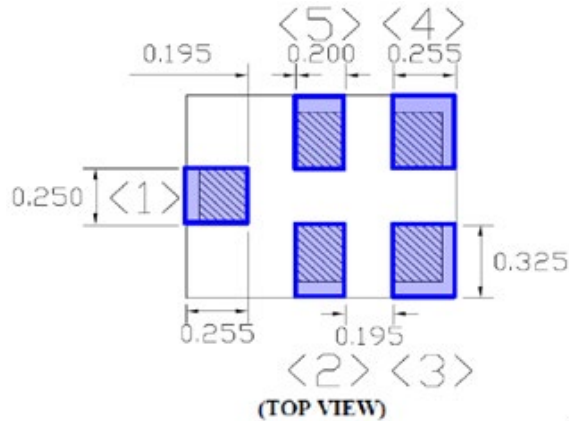
Smith Chart



MEASUREMENT CIRCUIT:

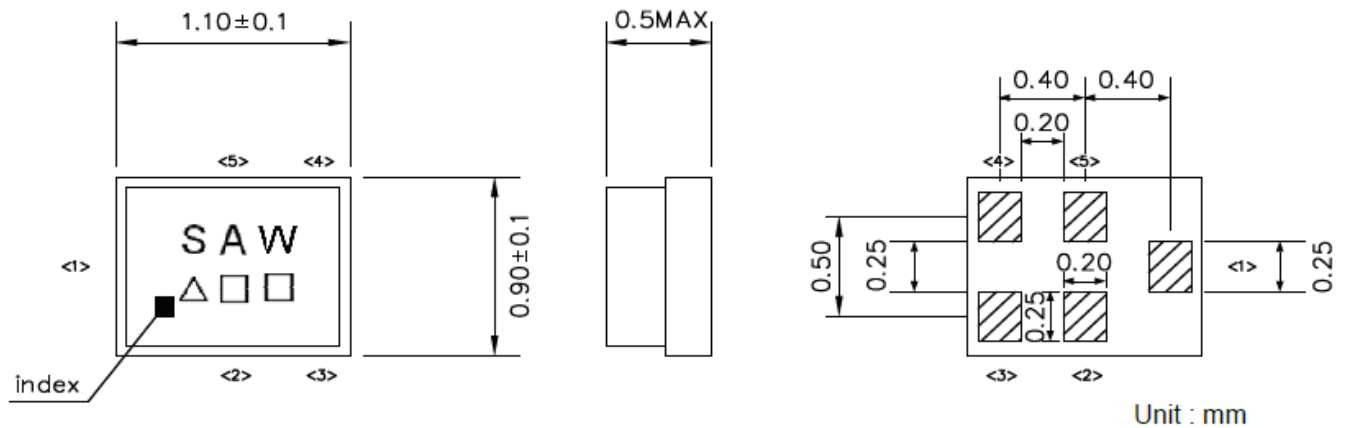


PCB Footprint:



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

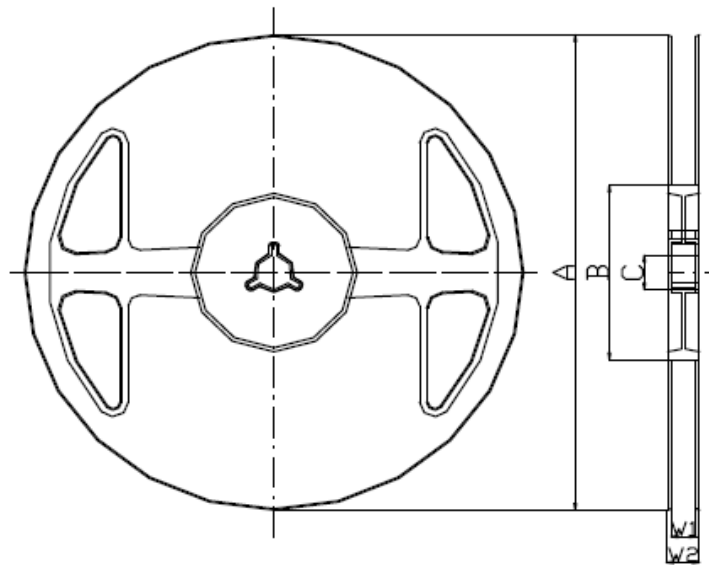
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	A	B	C	Đ	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	∇	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

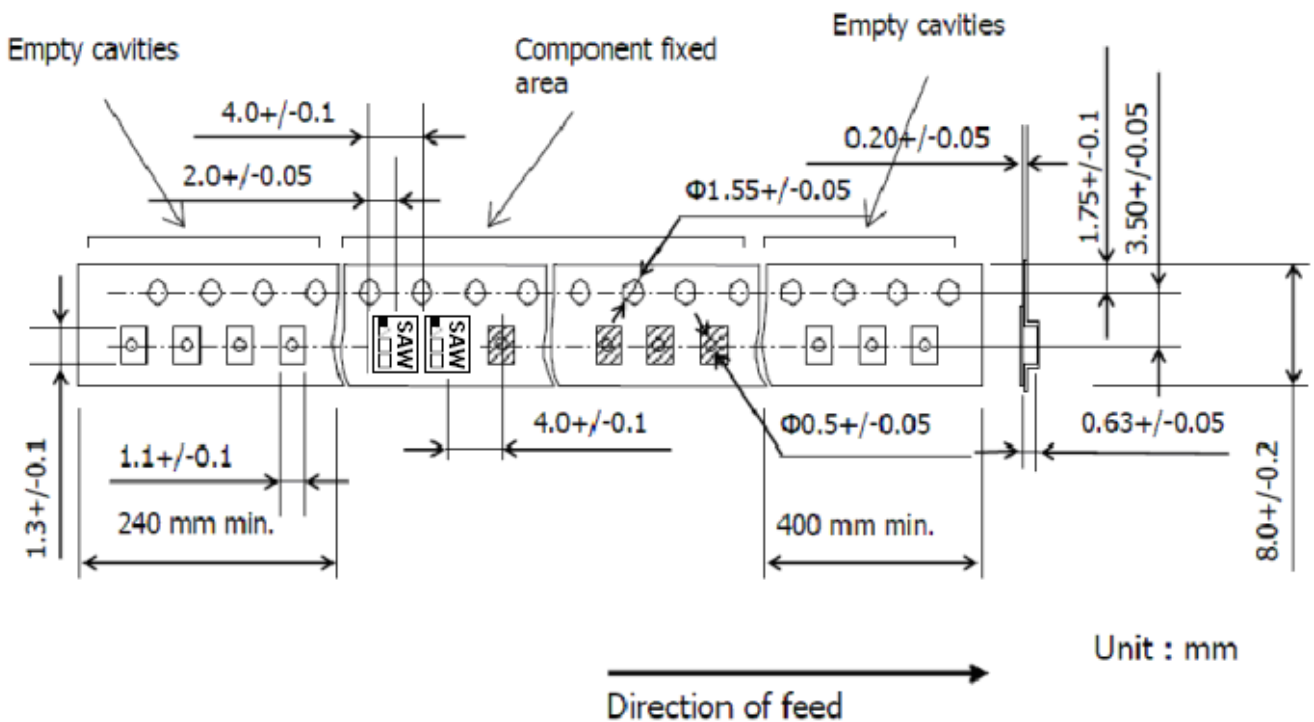
Color : Black

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

Unit : mm

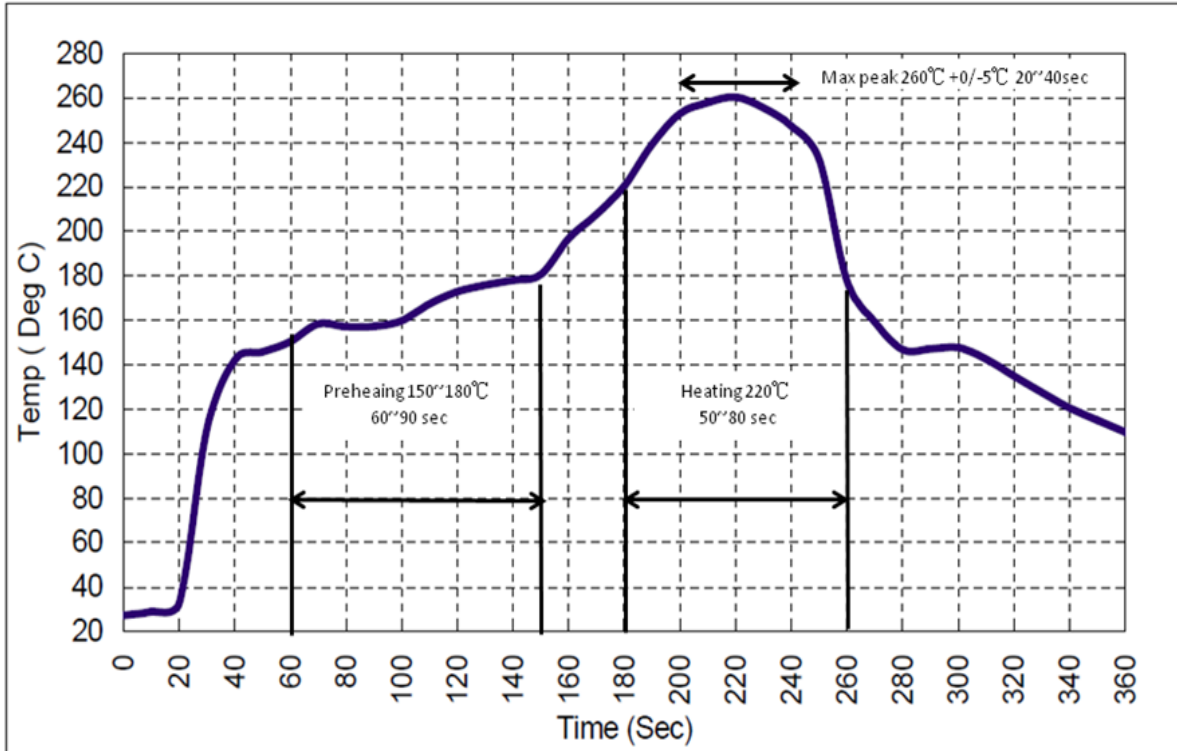
Code	Quantity	A	B	C	W1	W2
J	5,000 pcs	$\phi 180.0 +0.0/-1.5$	$\phi 66.0 +/-0.5$	$\phi 13.0 +/-0.2$	$9.0 +1.0/-0.0$	$11.4 +/-1.0$

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.