



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

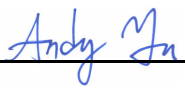
Product Name: SAW Tx Filter 710 MHz LTE Band 17 SMD1.1X0.9mm (BW=12 MHz)

TST Parts No.: TA2439C

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Anne Chen 

Approval by: _____ Andy Yu 

Date: _____ 2019/12/11

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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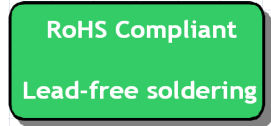
SAW Filter 710 MHz

MODEL NO.:TA2439C

REV.1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm (In passband)
2. DC Voltage: +/-5 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +100 °C
5. Moisture Sensitive Level: Level 1 (MSL1)
6. ESD: 100 V(MM), 200 V(HBM)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

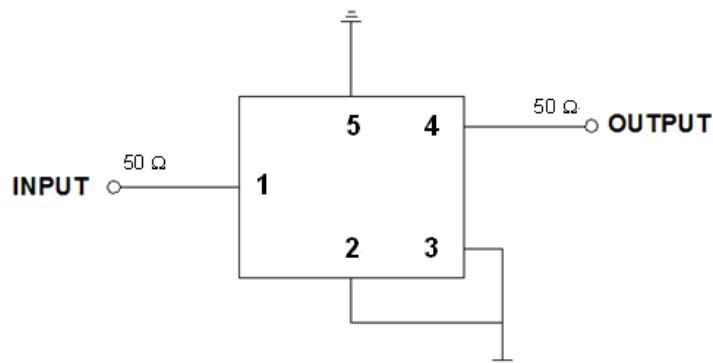
Terminating source impedance: $Z_s=50 \Omega$

Terminating load impedance: $Z_L=50 \Omega$

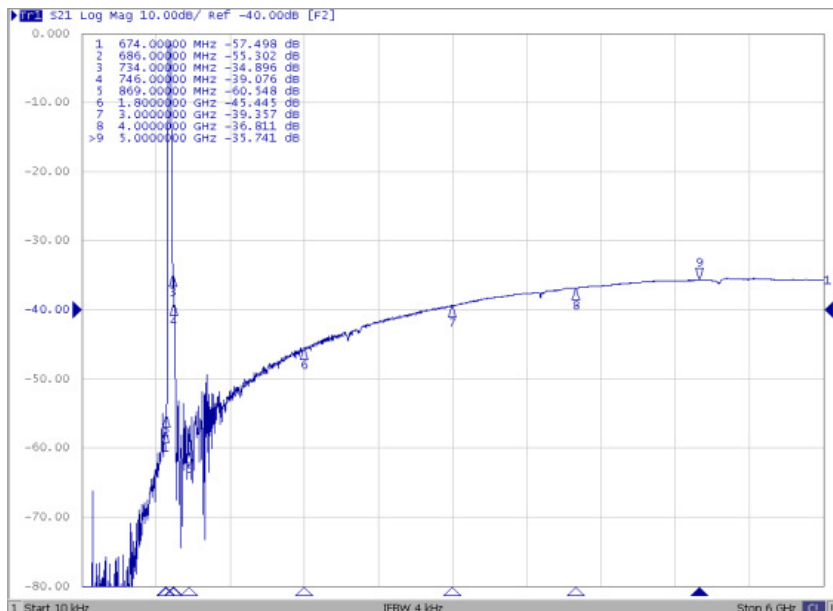
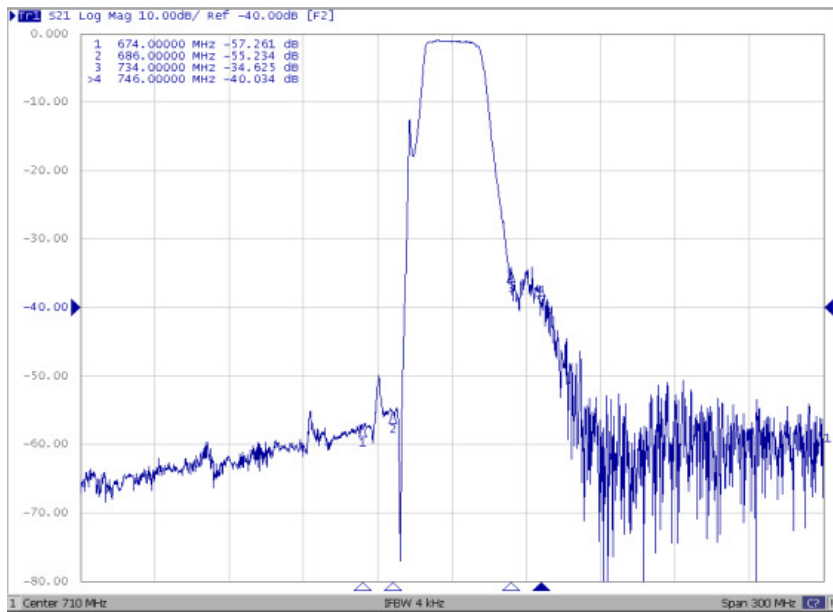
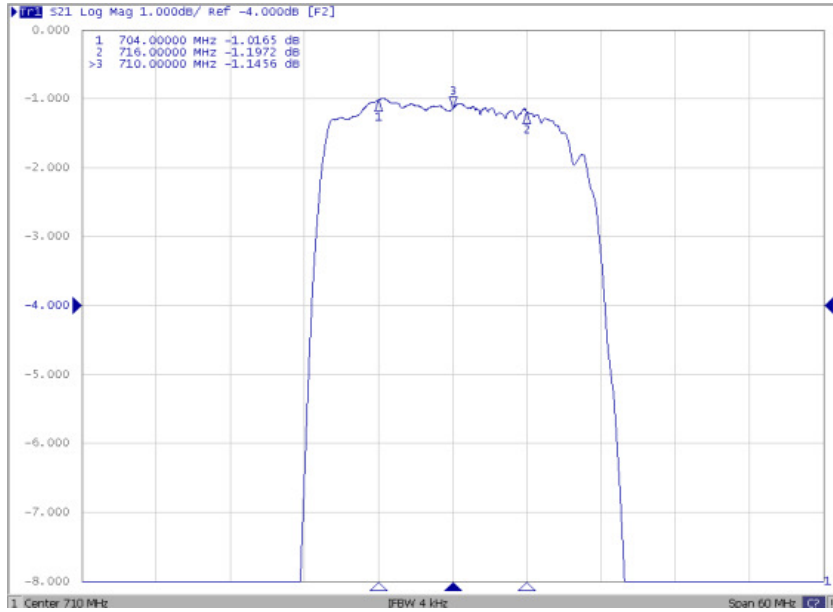
Parameters Description	Unit	Min.	Typ.	Max.	
Center Frequency	Fc	MHz	-	710	-
Insertion Loss (704~716 MHz)	IL	dB(*1)	-	1.3	1.9
Amplitude Ripple (704~716 MHz)		dB	-	0.4	1.1
VSWR (704~716 MHz)		-	-	1.5	2.0
Attenuation (Reference level from 0 dB)					
DC ~ 674 MHz		dB	45	55	-
674 ~ 686 MHz		dB	35	47	-
734 ~ 746 MHz		dB	26	33	-
869 ~ 1800 MHz		dB	35	45	-
1800 ~ 3000 MHz		dB	25	40	-
3000 ~ 4000 MHz		dB	20	38	-
4000 ~ 5000 MHz		dB	20	37	-
5000 ~ 6000 MHz		dB	20	37	-

(*1) Specification of insertion loss includes loss that comes from the test board. (0.05 dB)

C. MEASUREMENT CIRCUIT:

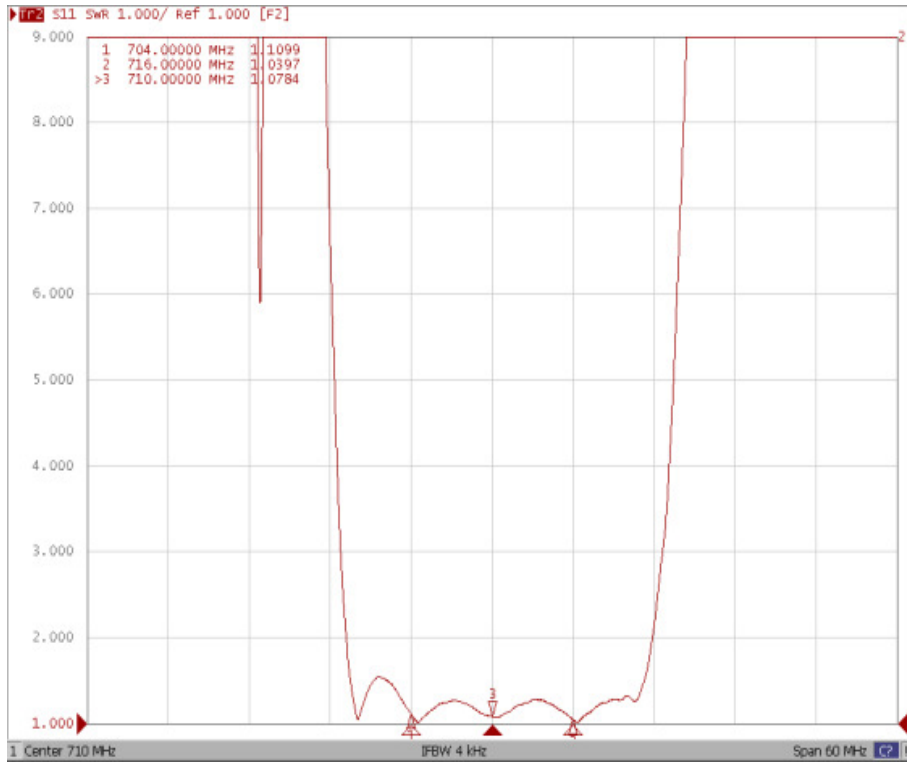


D. FREQUENCY CHARACTERISTIC:

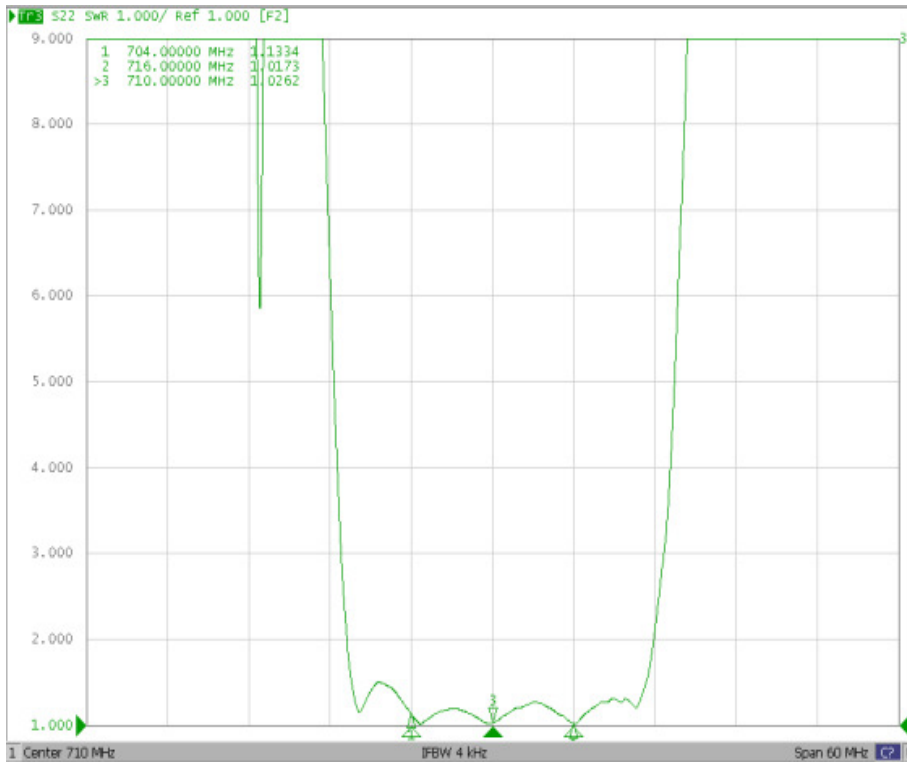


Reflection Functions:

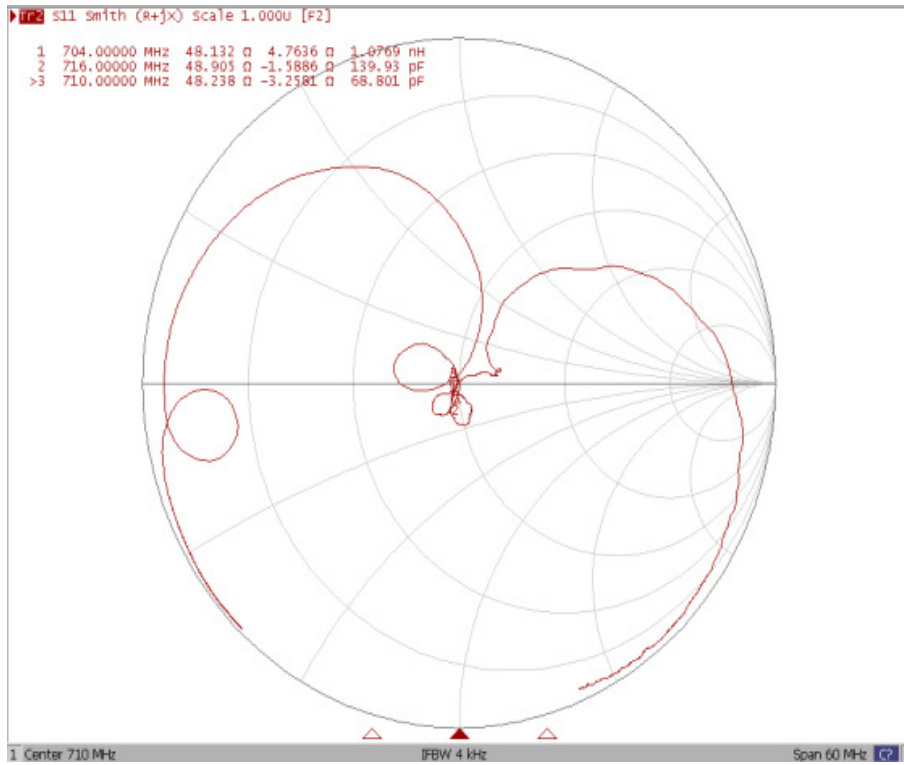
VSWR S11



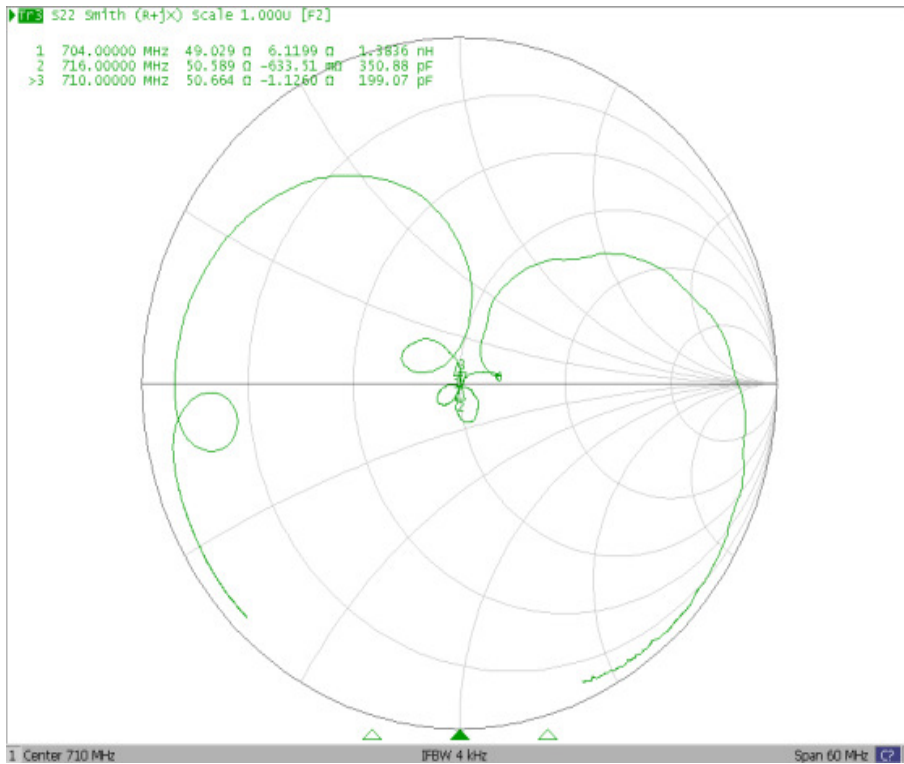
VSWR S22



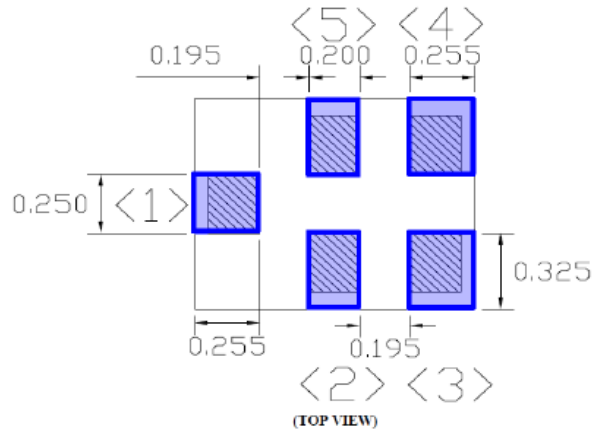
Smith Chart S11



Smith Chart S22

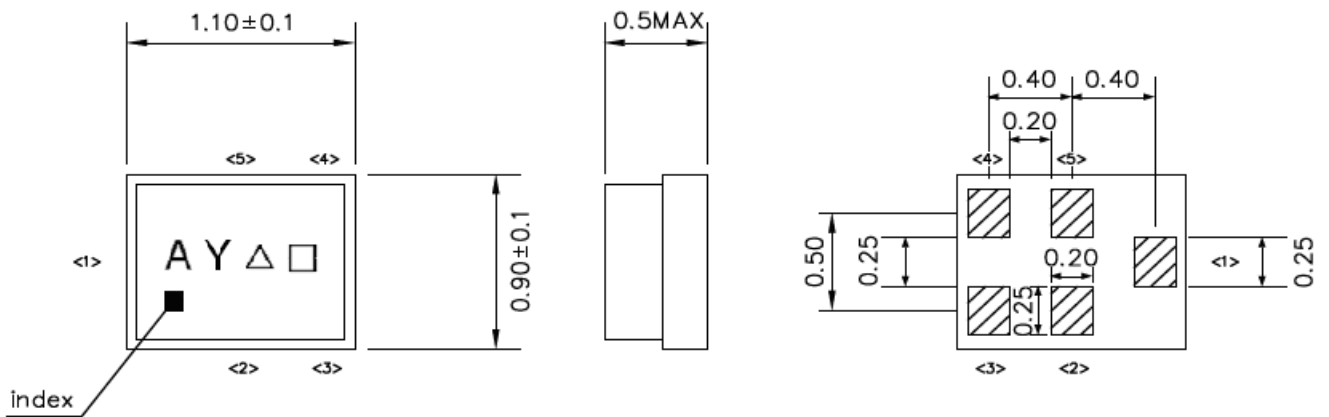


E. PCB Footprint:



F OUTLINE DRAWING (Mass Production):

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



Unit : mm

Not Specified Tolerance : +/-0.1 mm

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

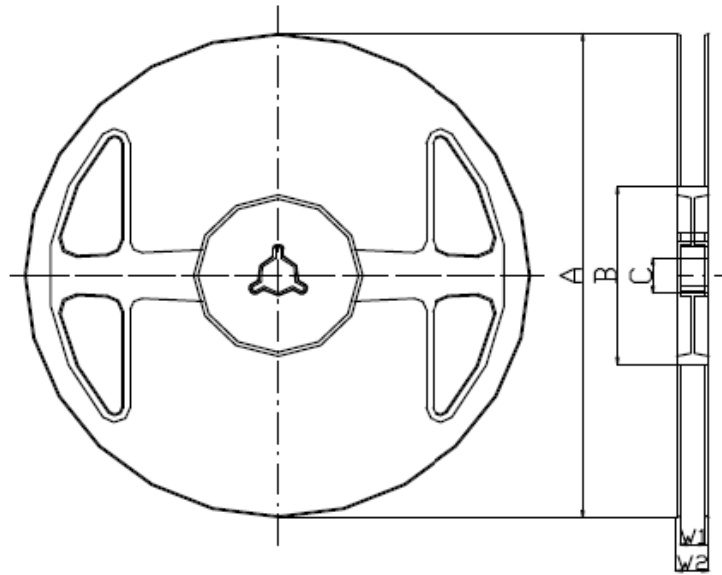
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Date Code: Follow below table. (4-year cycle)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019 / 2023	a	b	c	d	e	f	g	h	j	k	l	m
2020 / 2024	n	p	q	r	s	t	u	v	w	x	y	z
2021 / 2025	A	B	C	D	E	F	G	H	J	K	L	M
2022 / 2026	N	P	Q	R	S	T	U	V	W	X	Y	Z

G. PACKING: (Ref: WI-75M03)

1. REEL DIMENSION



Materials of Reel

Material : Polystyrene + Carbon

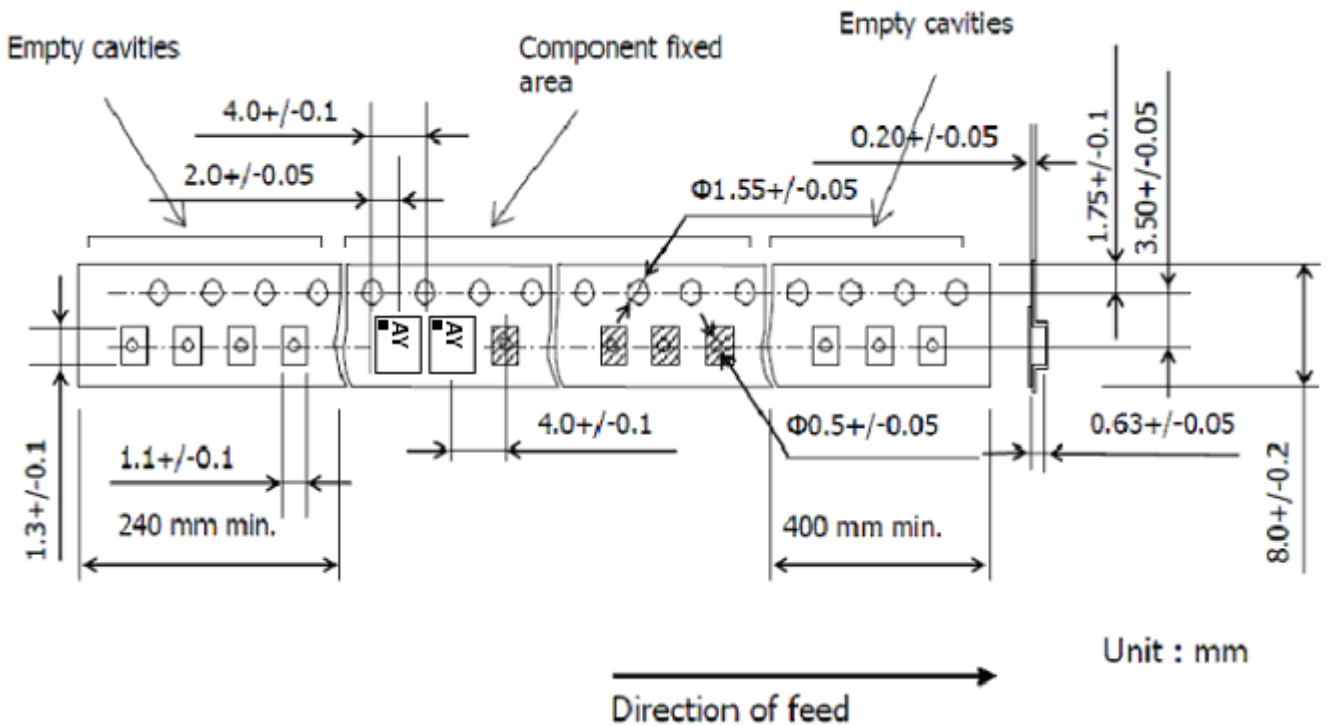
Color : Black

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

Unit : mm

A	B	C	W1	W2
$\phi 180.0 +0.0/-1.5$	$\phi 66.0 +/-0.5$	$\phi 13.0 +/-0.2$	$9.0 +1.0/-0.0$	$11.4 +/-1.0$

2. TAPE DIMENSION



Unit : mm

H. 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.

