



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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Product Specifications Approval Sheet

Product Name: SAW Rx Filter 773 MHz LTE Band 28 SMD 1.1x0.9 mm (BW=30 MHz)

TST Parts No.: TA1897A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/09/20

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 773 MHz

MODEL NO.:TA1897A

REV. NO.:3.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm (in passband)
2. DC Voltage : +/-5 V
3. Operating Temperature: -30 °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)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

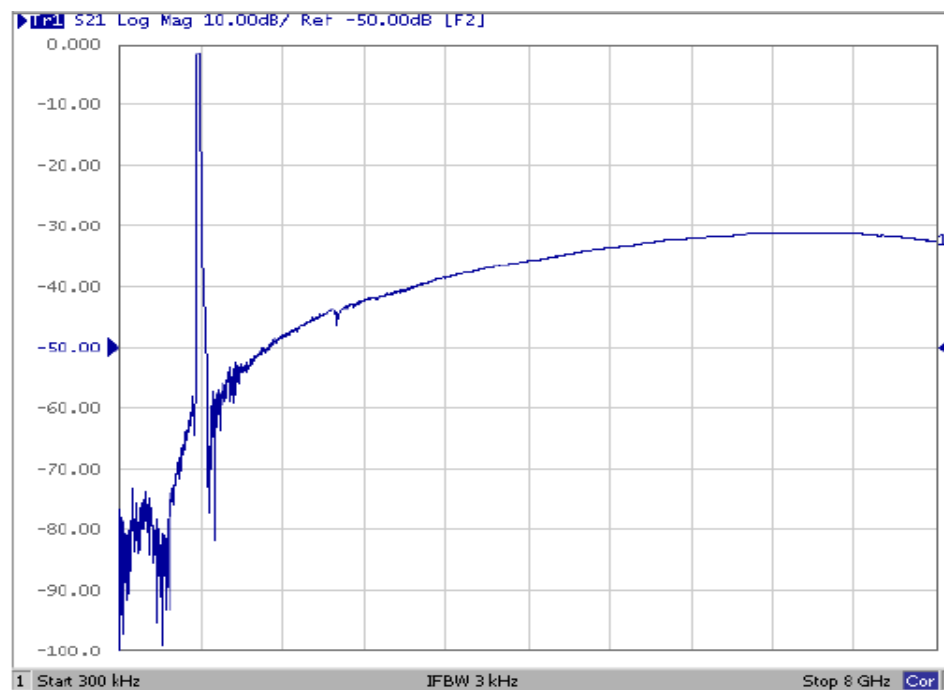
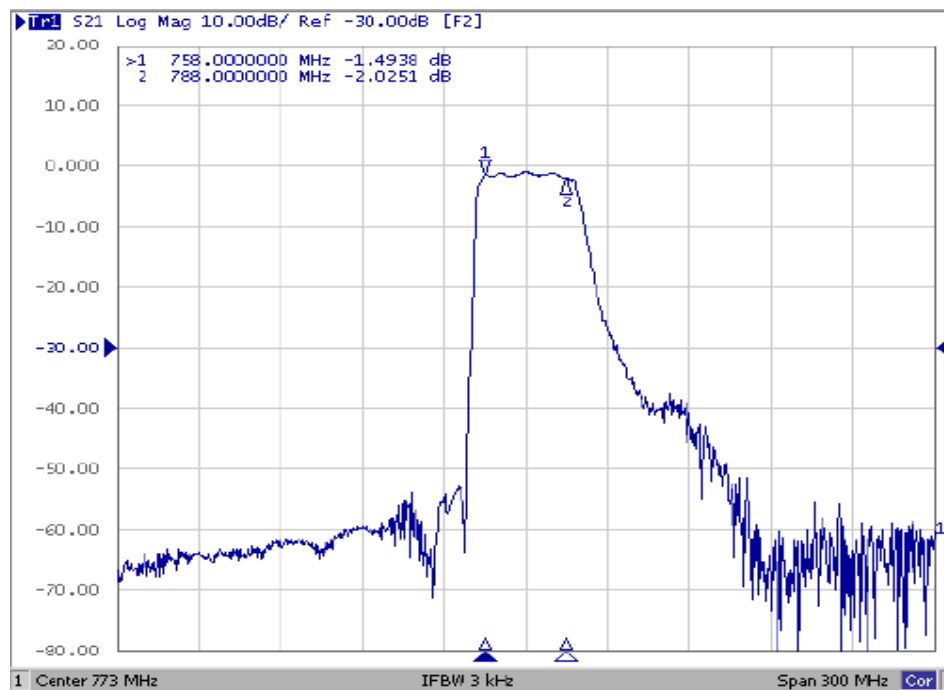
Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	773	-
Insertion Loss (758~788 MHz) IL	dB(*1)	-	2.1	3.0
Amplitude Ripple (758~788 MHz)	dB	-	1.1	2.3
VSWR (758~788 MHz)	-	-	2.2	2.5
Attenuation (Reference level from 0 dB)				
703 ~ 733 MHz	dB	46	52	-
733 ~ 748 MHz	dB	46	53	-
1516 ~ 1576 MHz	dB	40	49	-
1559 ~ 1606 MHz	dB	40	48	-
2274 ~ 2364 MHz	dB	35	43	-
2400 ~ 2500 MHz	dB	35	43	-
3032 ~ 3152 MHz	dB	30	40	-
3790 ~ 3940 MHz	dB	30	39	-
4548 ~ 4728 MHz	dB	30	38	-
4900 ~ 5950 MHz	dB	30	37	-
5306 ~ 5516 MHz	dB	30	38	-
6064 ~ 6304 MHz	dB	30	39	-
6822 ~ 7092 MHz	dB	30	42	-
7580 ~ 7880 MHz	dB	25	49	-

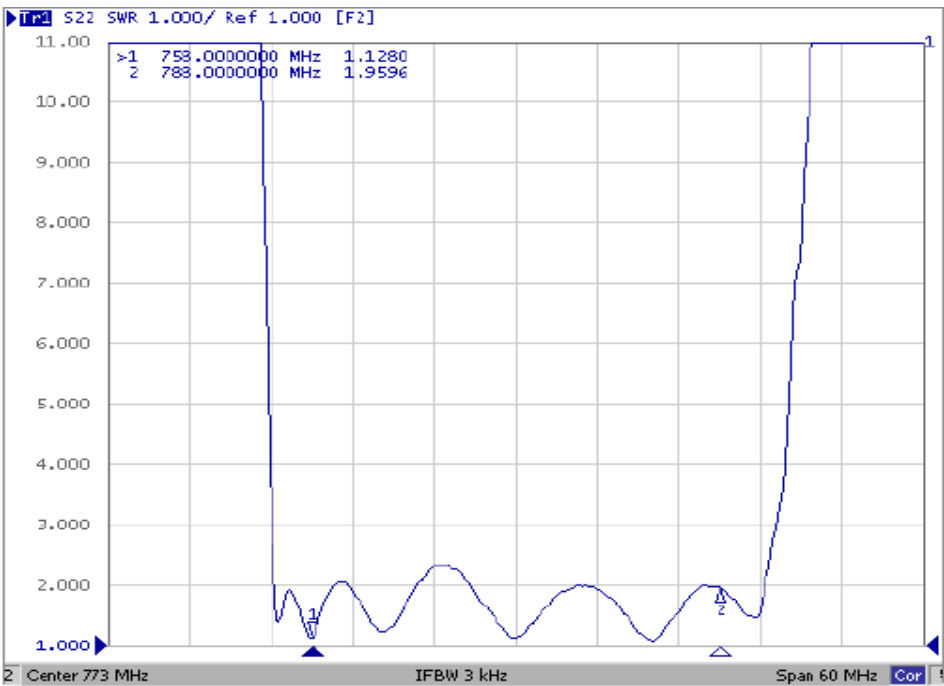
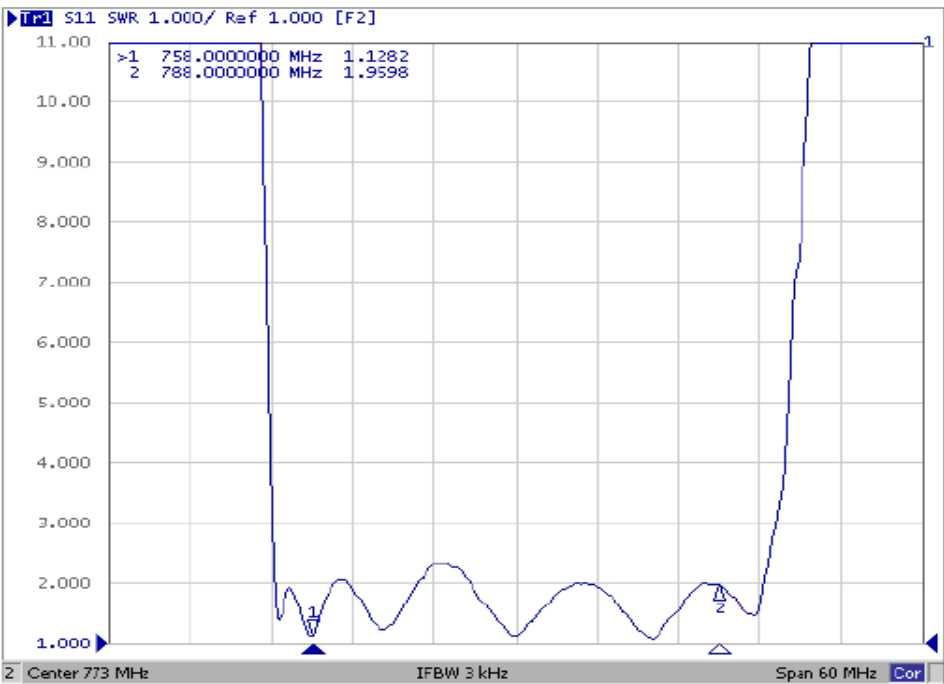
(*1) Specification of insertion loss excludes loss that comes from test board.

C. FREQUENCY CHARACTERISTICS:

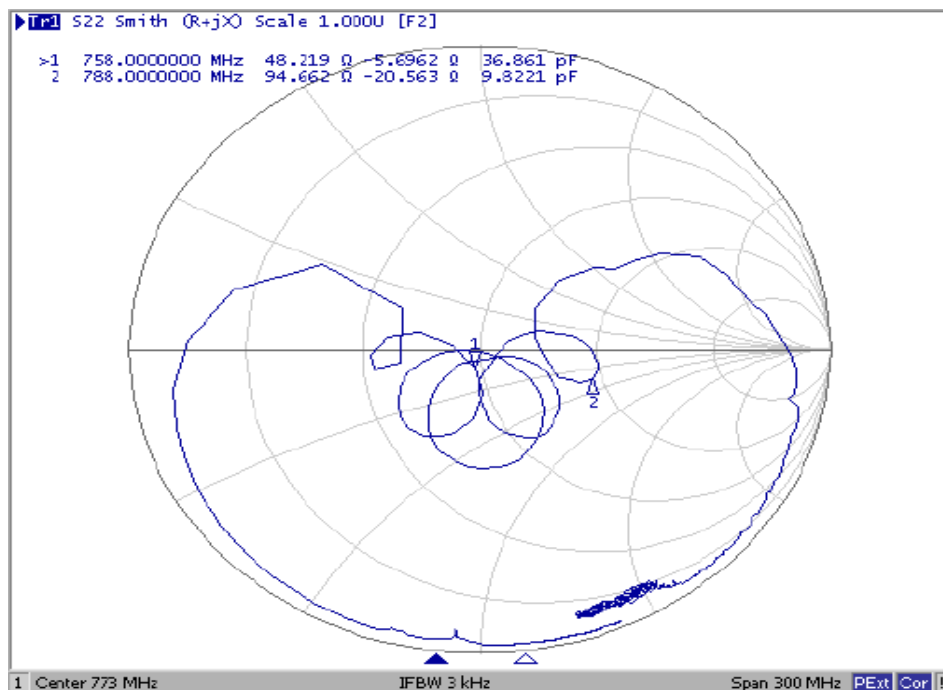
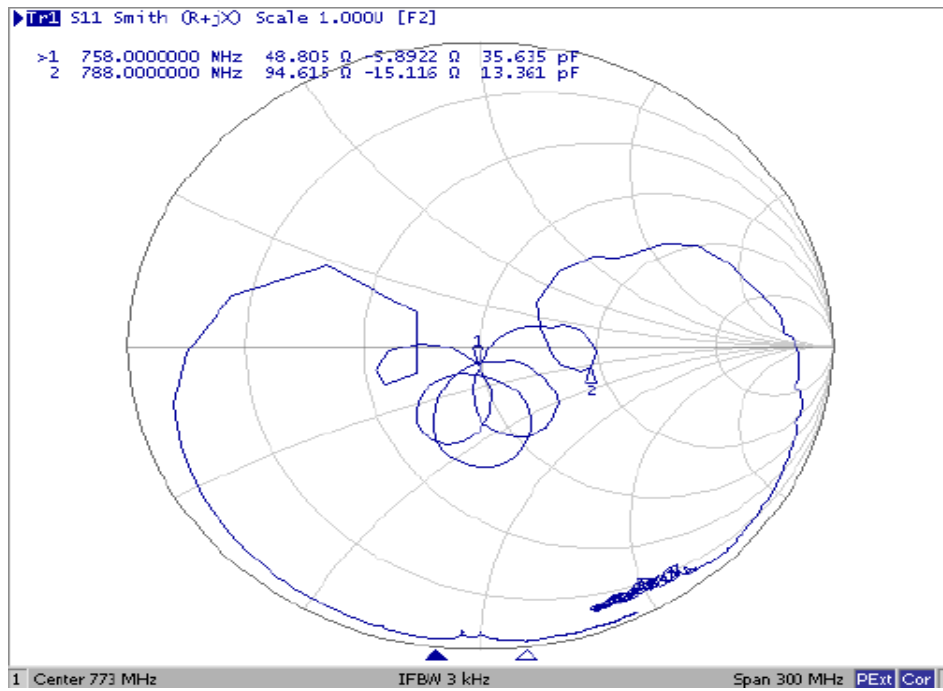


Reflection Functions:

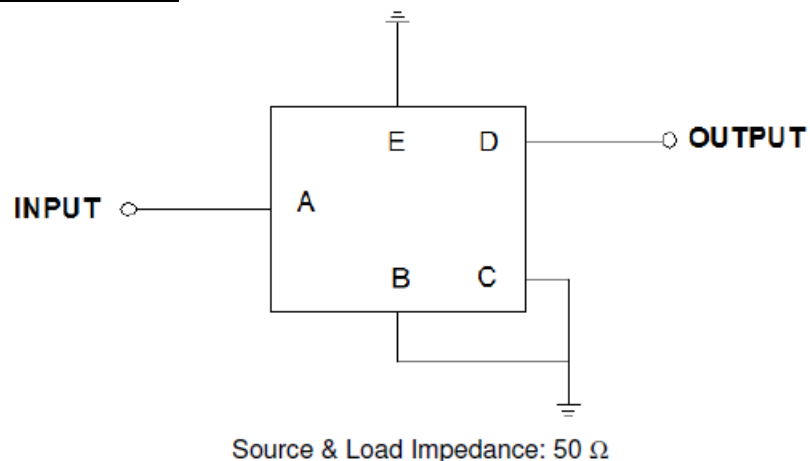
VSWR



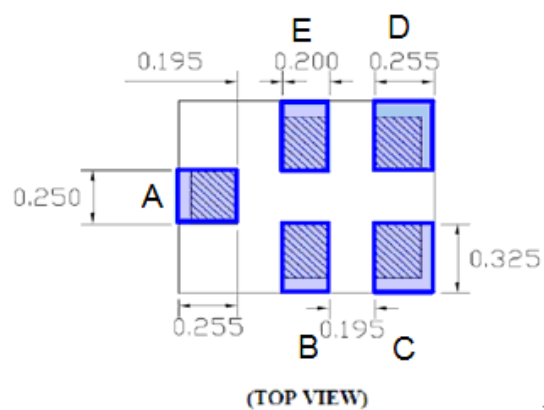
Smith Chart



D. MEASUREMENT CIRCUIT:

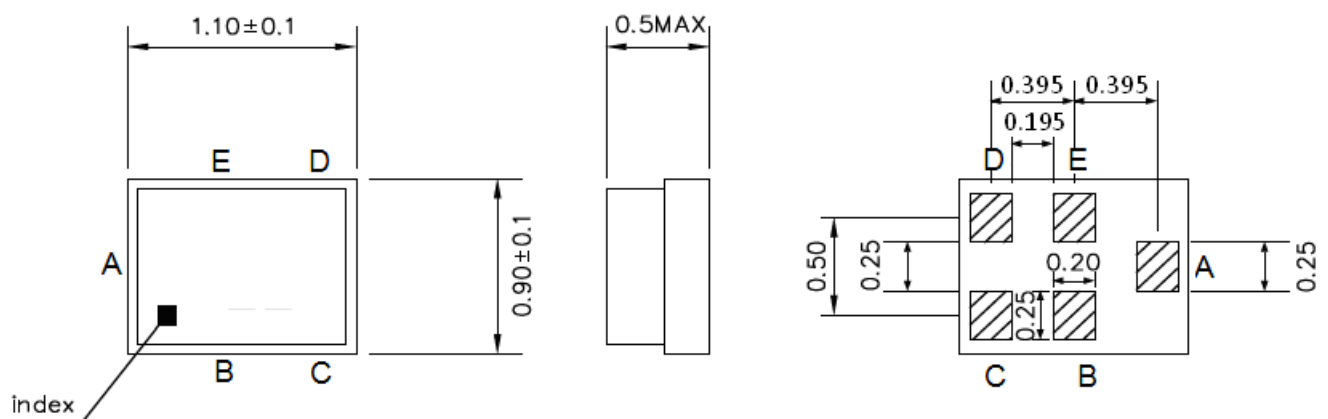


E. PCB Footprint:



F. OUTLINE DRAWING:

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

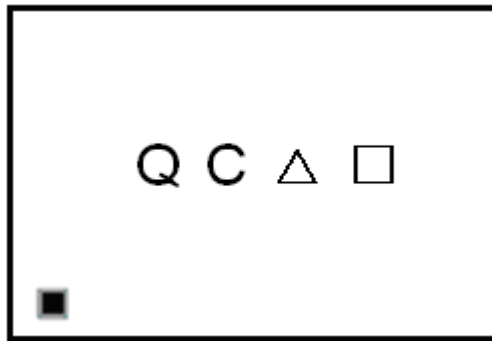


Unit : mm

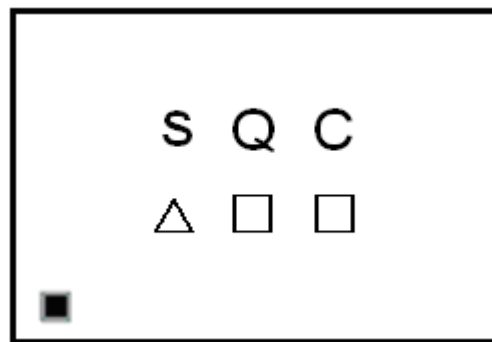
Pin Configuration

Pin No.	Symbol	Function
A	IN	Unbalanced pin
B	GND	Ground
C	GND	Ground
D	OUT	Unbalanced pin
E	GND	Ground

Top View (Mass Production):



Top View (Sample Production):



△ : **Date Code**

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

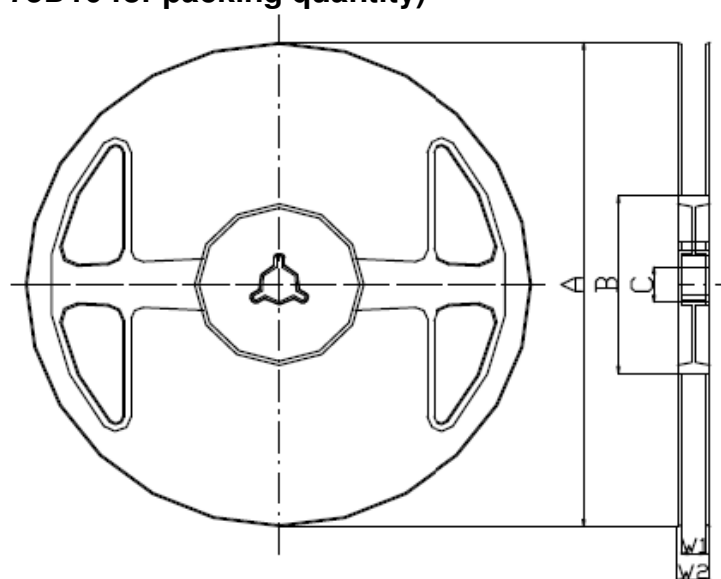
Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	▽	W	X	Y	Z

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

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



Materials of Reel

Material : Polystyrene + Carbon

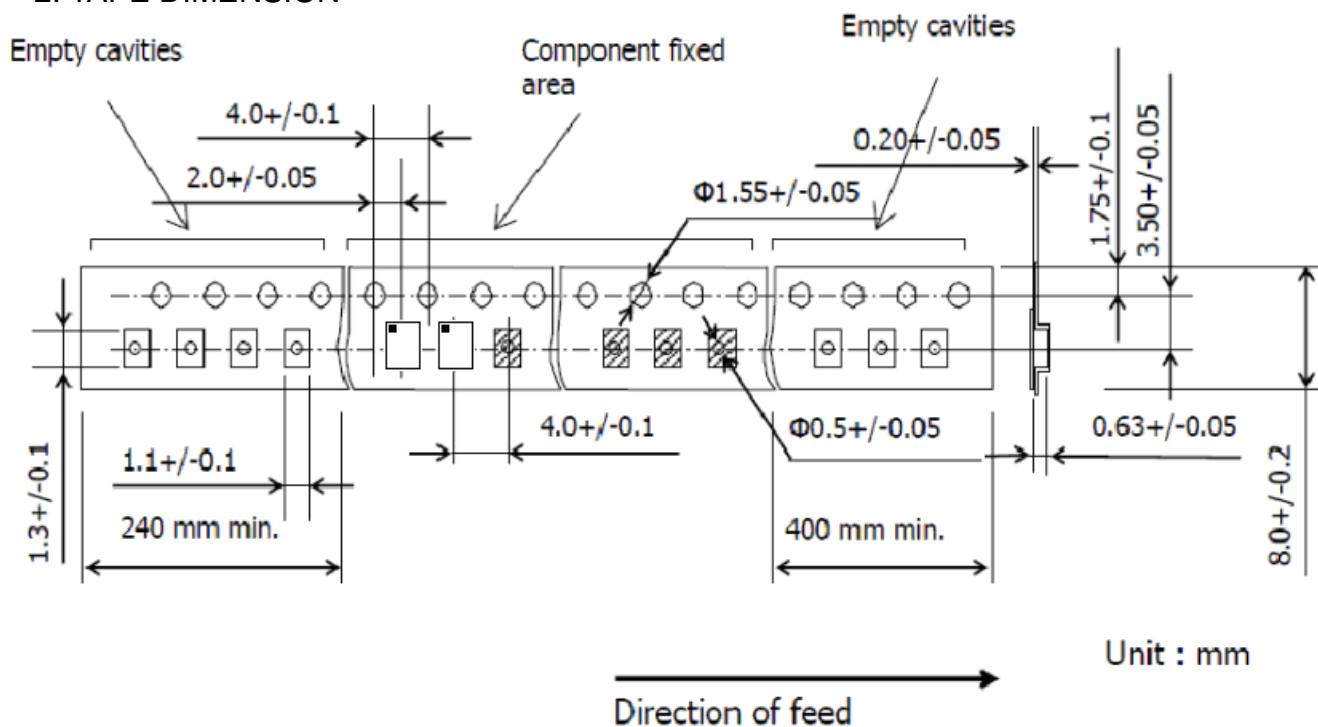
Color : Black

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



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.

