



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

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Product Specifications Approval Sheet

Product Name: SAW Filter 2605 MHz Band 41 SMD 1.4x1.1mm (BW=100 MHz)

TST Parts No.: TA1964CN1324

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/09/23

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 2605 MHz

MODEL NO.:TA1964CN1324

REV.1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 28.5 dBm, 5000h 55 deg.C
2. DC Voltage: 3 V (25±2 deg.C)
3. Operating Temperature: -20 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 3 (MSL 3)
6. ESD: 1A (Max. voltage: 499V) (HBM), M1 (Max. voltage: 100V) (MM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

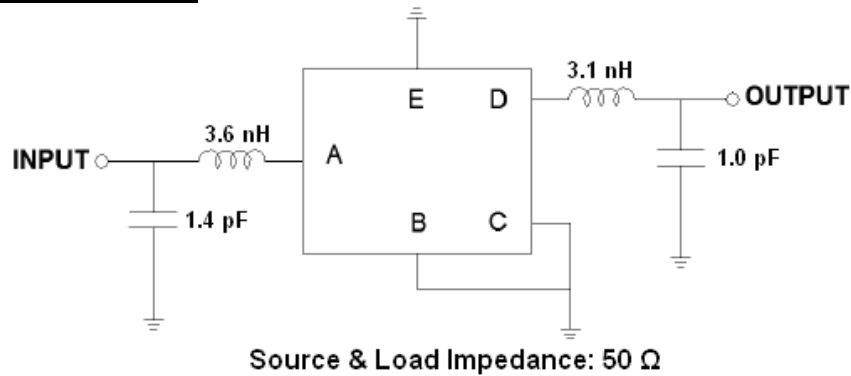
Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

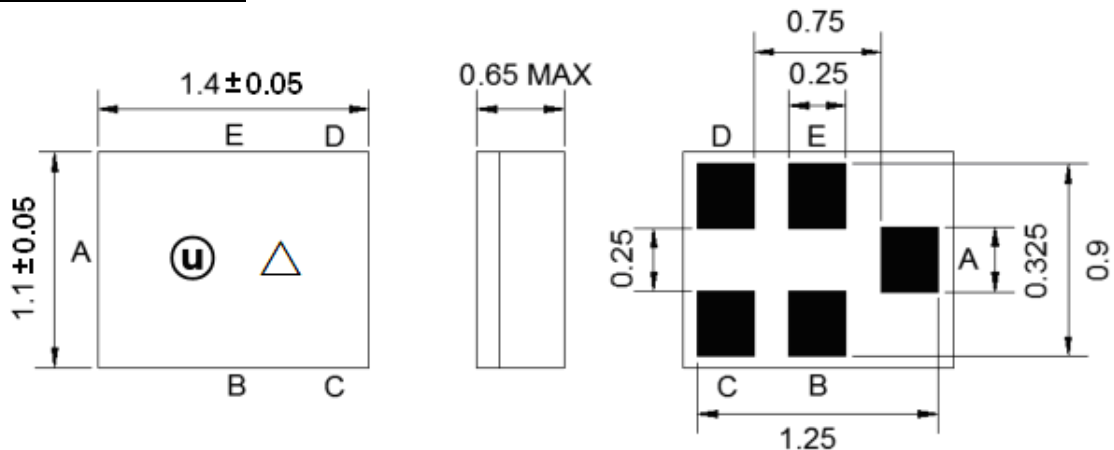
Item		Unit	Min.	Typ.	Max.	Note
Center Frequency		Fc	MHz	-	2605	-
Insertion Loss	2555 ~ 2575 MHz	dB	-	1.9	3.3	-
	2575 ~ 2635 MHz	dB	-	1.6	2.4	-
	2635 ~ 2655 MHz	dB	-	2.1	3.6	-
	2555 ~ 2575 MHz	dB	-	1.9	2.5	+23 ~ +27deg.C
	2575 ~ 2635 MHz	dB	-	1.6	2.1	+23 ~ +27deg.C
	2635 ~ 2655 MHz	dB	-	2.1	2.7	+23 ~ +27deg.C
Amplitude Ripple	2555 ~2655 MHz	dB _{p-p}	-	0.7	2.3	-
	2555 ~2655 MHz	dB _{p-p}	-	0.7	1.4	+23 ~ +27deg.C
VSWR	2555 ~2655 MHz	-	-	1.7	2.4	-
	2555 ~2655 MHz	-	-	1.7	2.4	+23 ~ +27deg.C
Attenuation (Reference level from 0 dB)						
880 ~ 915 MHz		dB	46	49	-	-
980 ~ 1558 MHz		dB	15	25	-	-
1559 ~ 1607 MHz		dB	40	55	-	-
1850 ~ 1920 MHz		dB	35	48	-	-
2400 ~ 2500 MHz		dB	30	40	-	-
2775 ~ 2880 MHz		dB	28	37	-	-
3700 ~ 3840 MHz		dB	25	33	-	-
4625 ~ 4800 MHz		dB	20	34	-	-

4900 ~ 5950 MHz	dB	18	34	-	-
5550 ~ 5725 MHz	dB	18	36	-	-
6475 ~ 6720 MHz	dB	15	32	-	-
7400 ~ 7680 MHz	dB	15	25	-	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



Marking Descriptions	
Ⓢ	Product symbol
△	Date Code (Year+Month)

Pin Description	
B, C, E	Ground
A	Input
D	Output

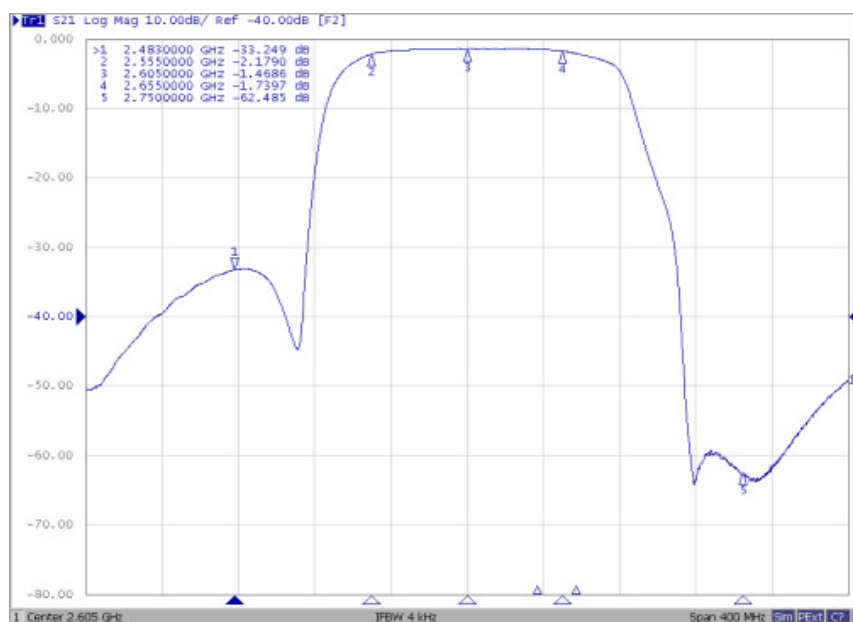
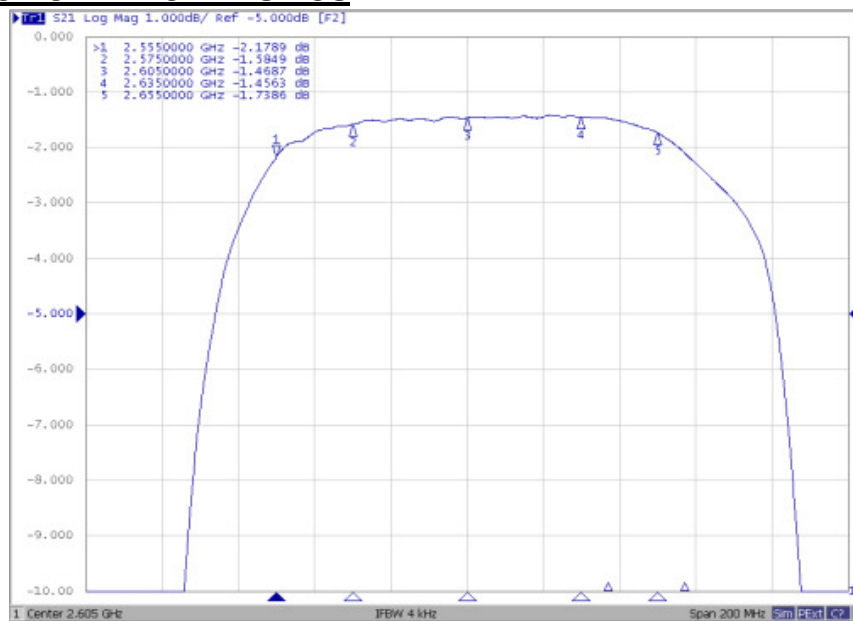
All tolerances are +/-0.13 mm unless otherwise specified.

Unit: mm

Year/Month Code

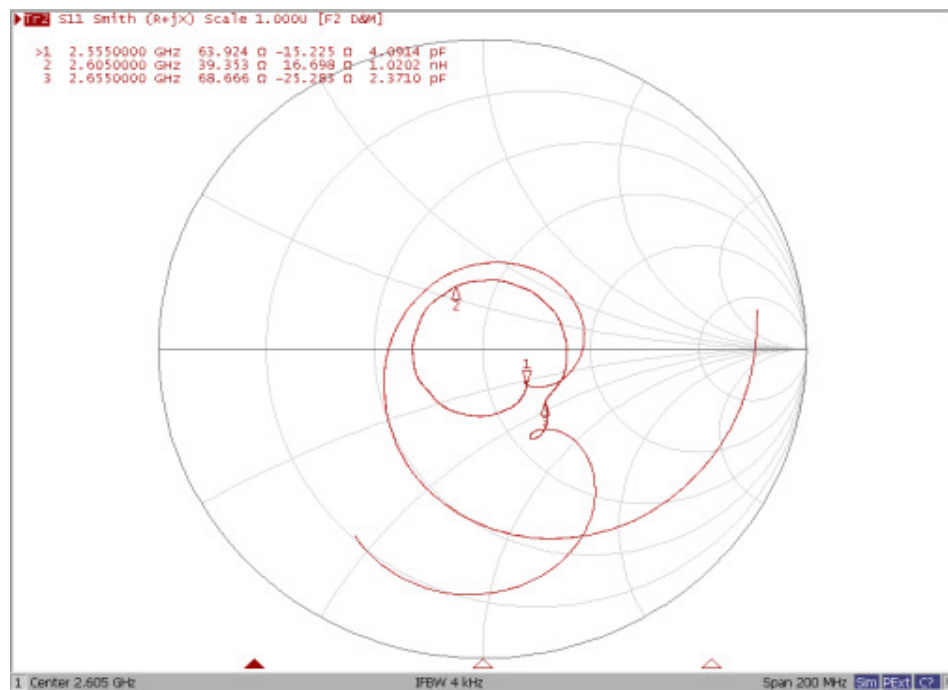
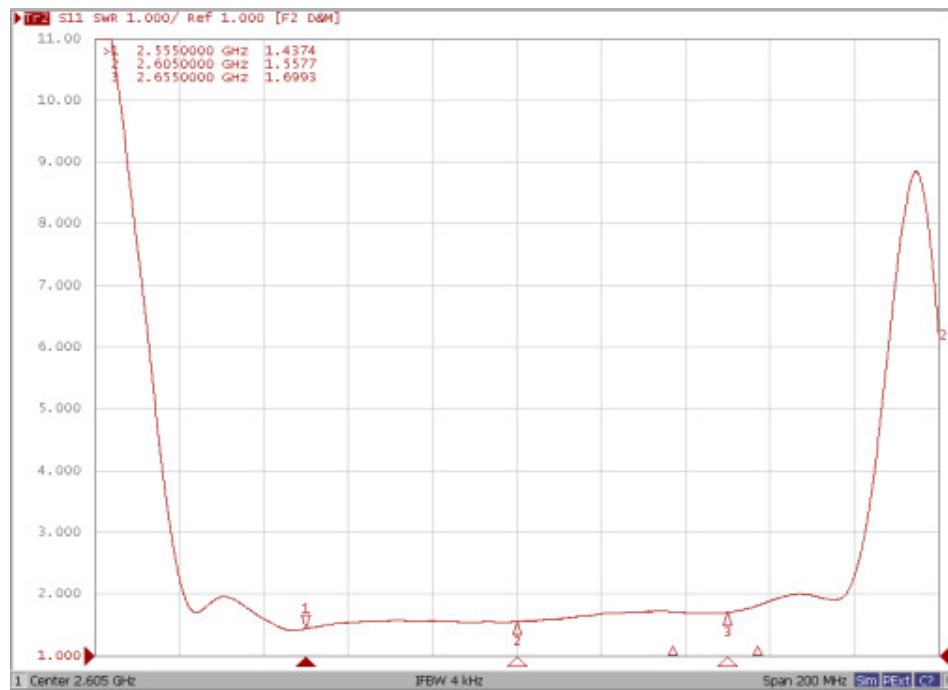
Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2027	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>

E. FREQUENCY CHARACTERISTICS:

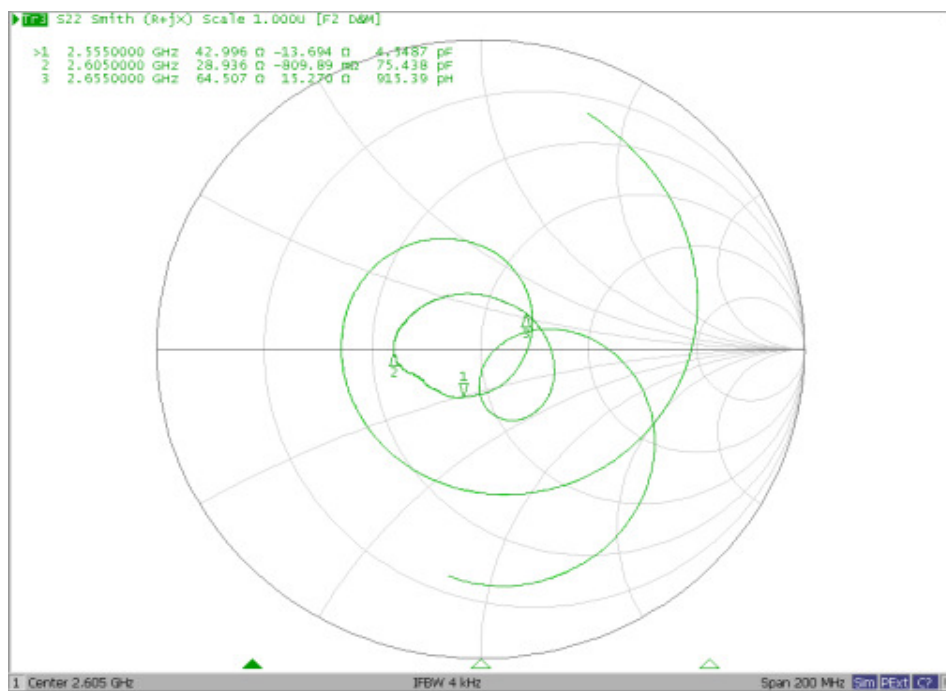
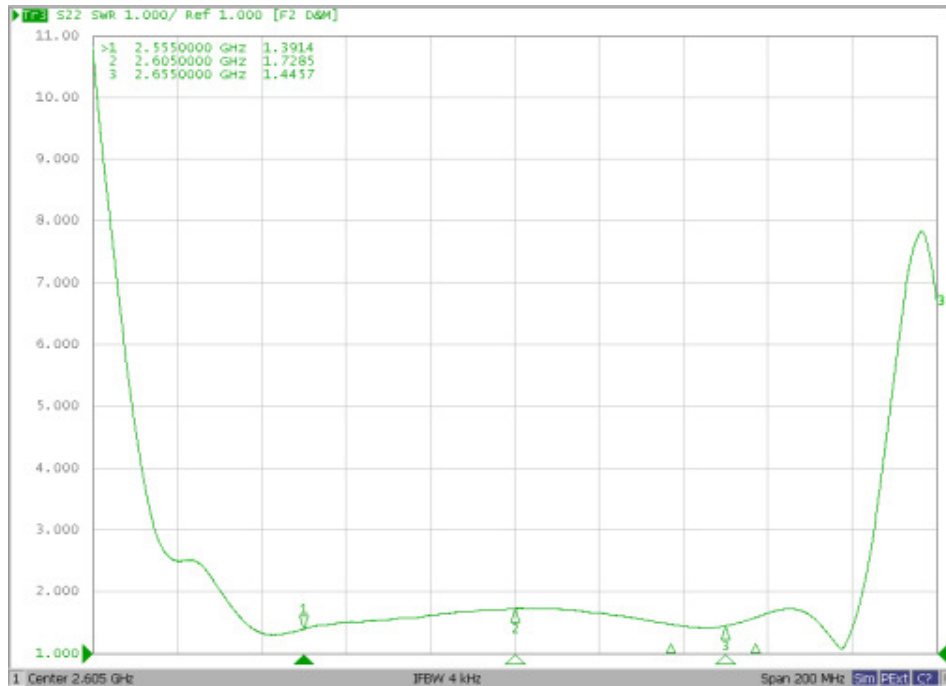


Reflection Functions:

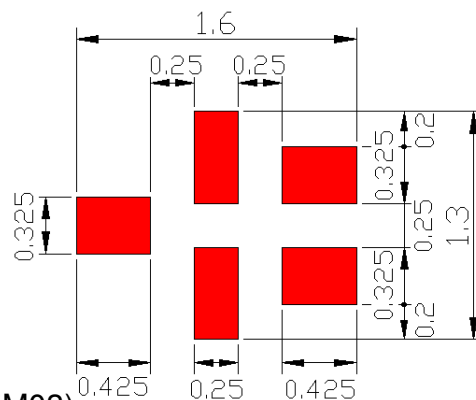
S11



S22



F. PCB FOOTPRINT:



Red square: Land Pattern

Unit: mm

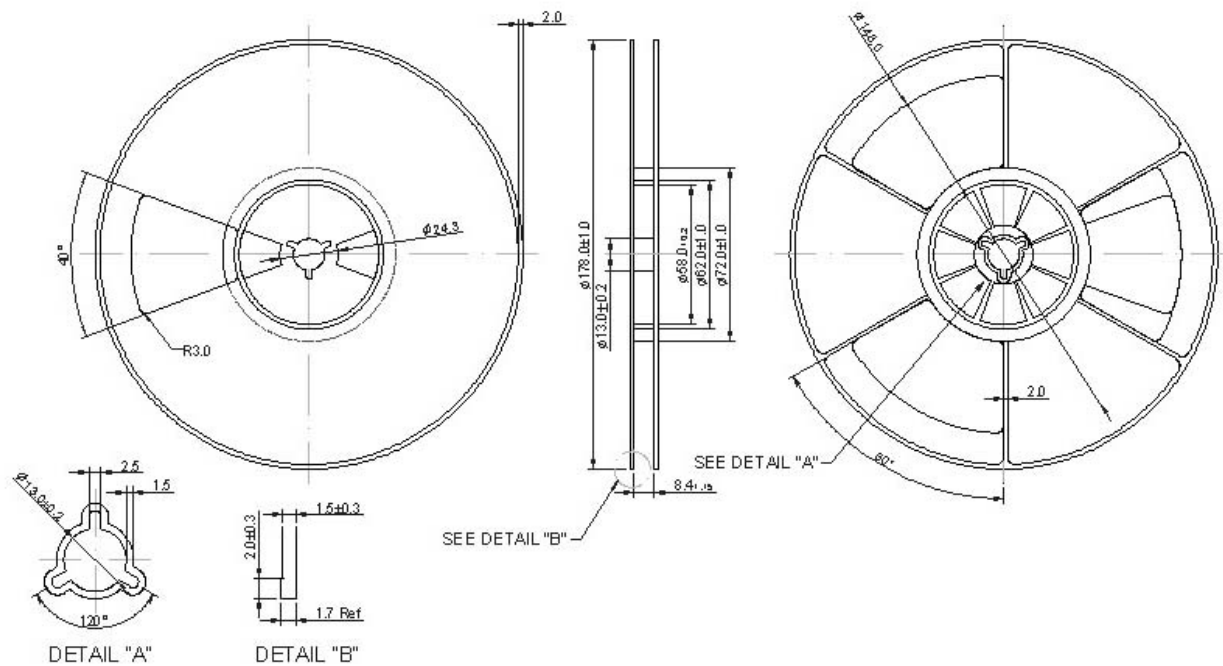
G. PACKING: (Ref: WI-75M03)

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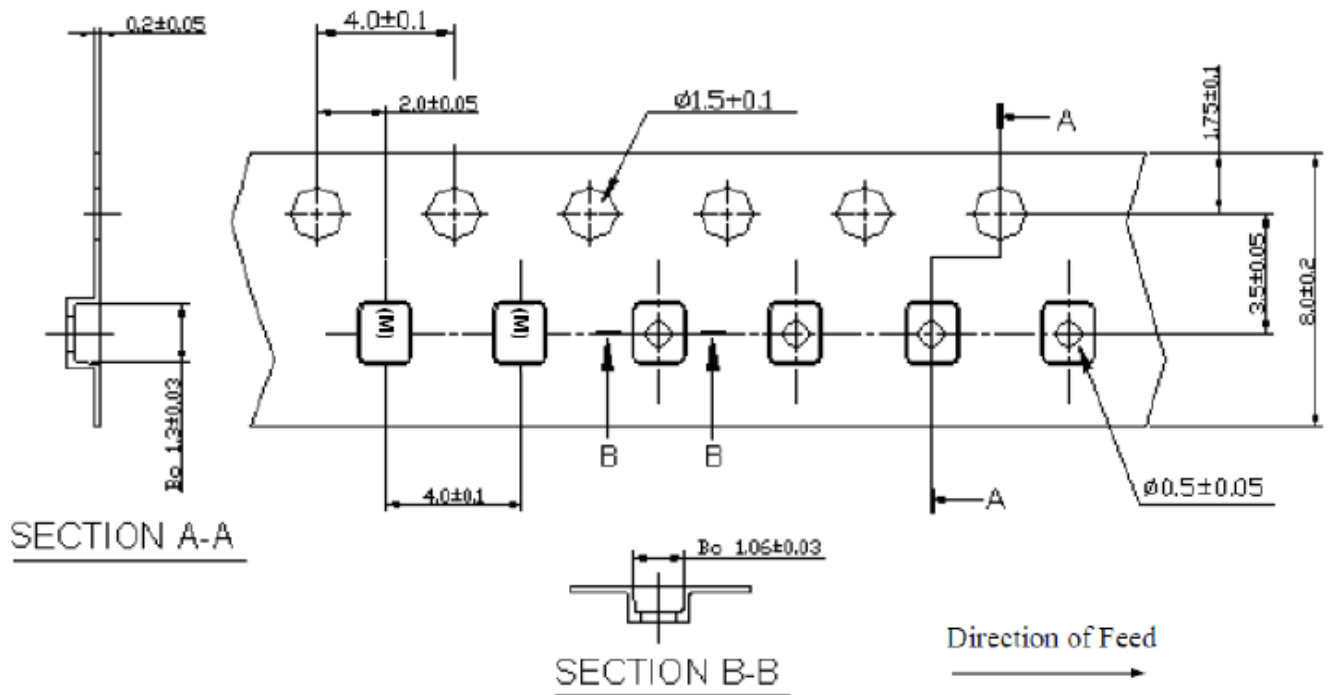
TST DCC
Release document

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

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.

