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
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Tx Filter 2350MHz LTE Band 40 SMD 1109

TST Part No.: TA1966A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Jun-Mao Chang 張俊貿

Approved by: Andy Yu Andy Yu

Date: 2021/05/14

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 Tx Filter 2350MHz LTE Band 40 SMD 1109 (100MHz BW)

MODEL NO.:TA1966A REV. NO.:4.0

A. MAXIMUM RATING:

1. Input Power Level: 28dBm
2. DC Voltage : 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

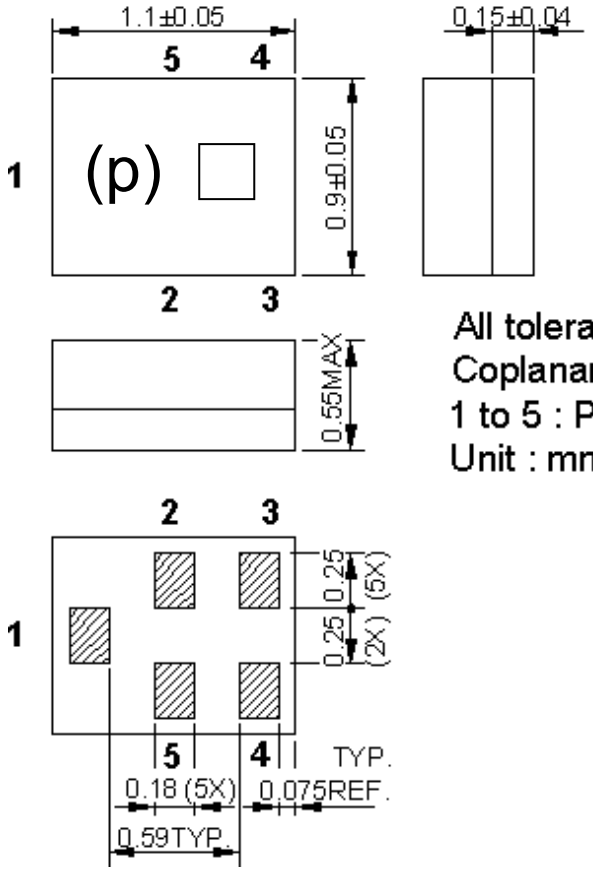
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 50 Ω

Item		Unit	Min.	Typ.	Max.	Note
Center Frequency	**Fc**	MHz	-	2350	-	-
Insertion Loss (2300~2400 MHz)	**IL**	dB	-	1.9	2.8	-
Amplitude ripple(2300~2400 MHz)		dBp-p	-	1.2	2.3	-
VSWR (2300~2400 MHz)			-	1.5	2.0	-
Attenuation (reference level from 0 dB)						
10 ~ 1574 MHz		dB	20	29	-	-
1574 ~ 1577 MHz		dB	20	29		
1577 ~ 1680 MHz		dB	20	27		
1845 ~ 1880 MHz		dB	18	25	-	-
2110 ~ 2170 MHz		dB	18	25	-	-
2240 ~ 2285 MHz		dB	1.5	7	-	-
2415 ~ 2420 MHz		dB	1.5	5	-	-
2420 ~ 2460 MHz		dB	3	6	-	-
2460 ~ 2485 MHz		dB	30	43	-	-
2485 ~ 2500 MHz		dB	30	48		
2500 ~ 3000 MHz		dB	20	26		
4600 ~ 4800 MHz		dB	20	25		
4800 ~ 6000 MHz		dB	18	21		
Temperature Coefficient of Frequency		ppm/℃	-	-36	-	-

C.OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

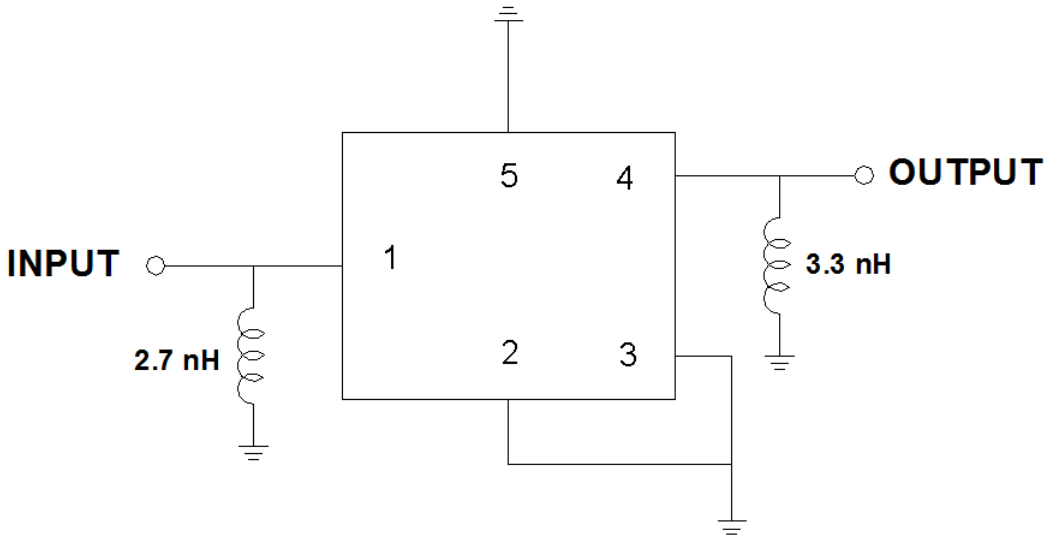
Marking Descriptions	
(p)	Series Number
□	Date Code(Year+Month)

□: Year/Month Code (Follow the table)

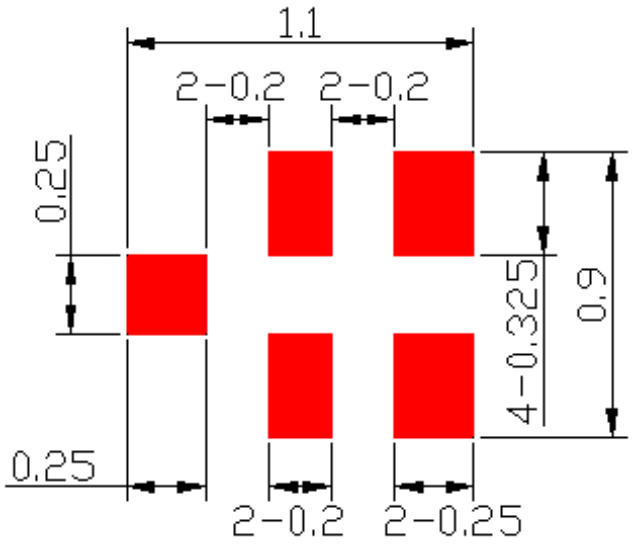
Date Code Table:

Year \ Month	1	2	3	4	5	6	7	8	9	10	11	12
2013 / 2021	A	B	C	D	E	F	G	H	J	K	L	M
2014 / 2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015 / 2023	a	b	c	d	e	f	g	h	j	k	l	m
2016 / 2024	n	p	q	r	s	t	u	v	w	x	y	z
2017 / 2025	A	B	C	D	E	F	G	H	J	K	L	M
2018 / 2026	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019 / 2027	a	b	c	d	e	f	g	h	j	k	l	m
2020 / 2028	n	p	q	r	s	t	u	v	w	x	y	z

D. MEASUREMENT CIRCUIT:



E. PCB Footprint：

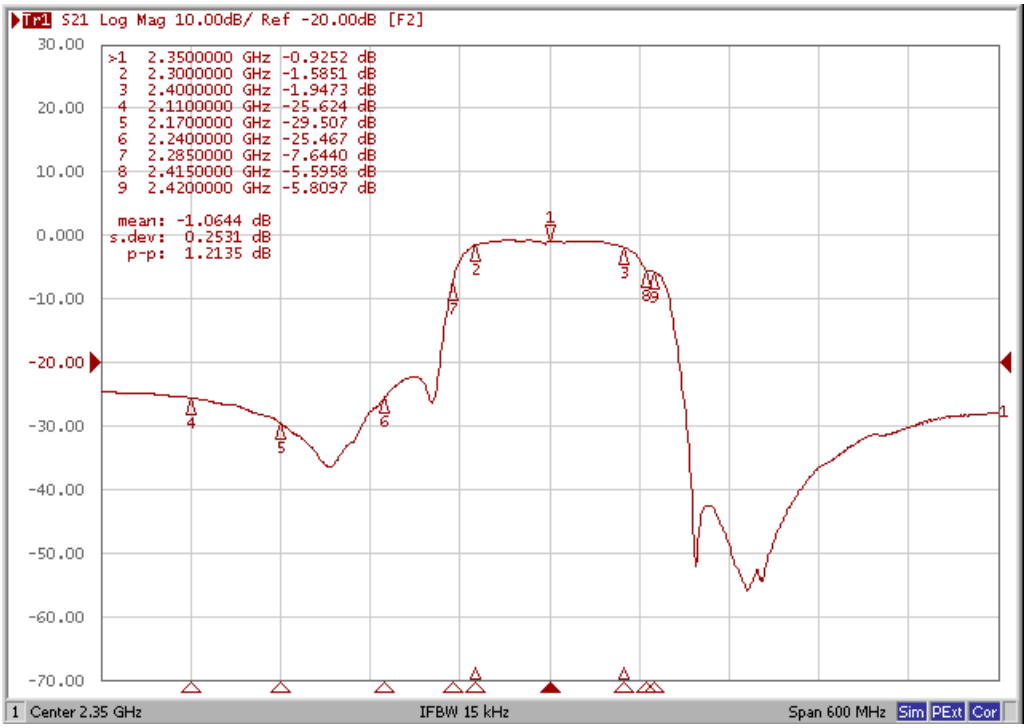


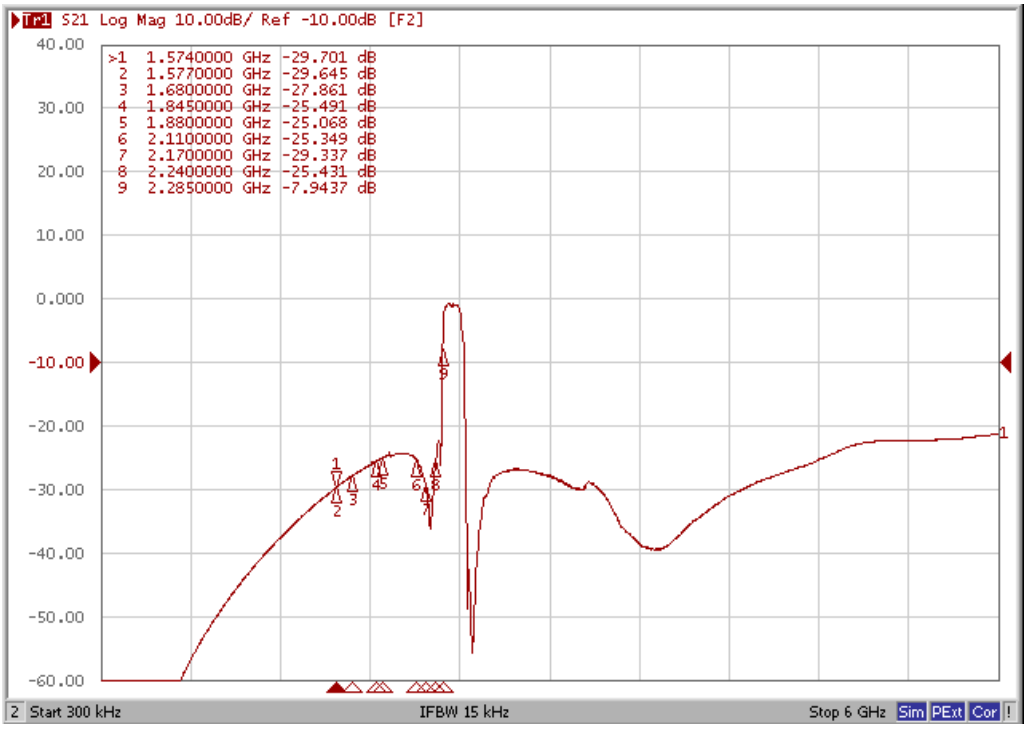
: Land Pattern

Unit: mm

F. Frequency Characteristics:

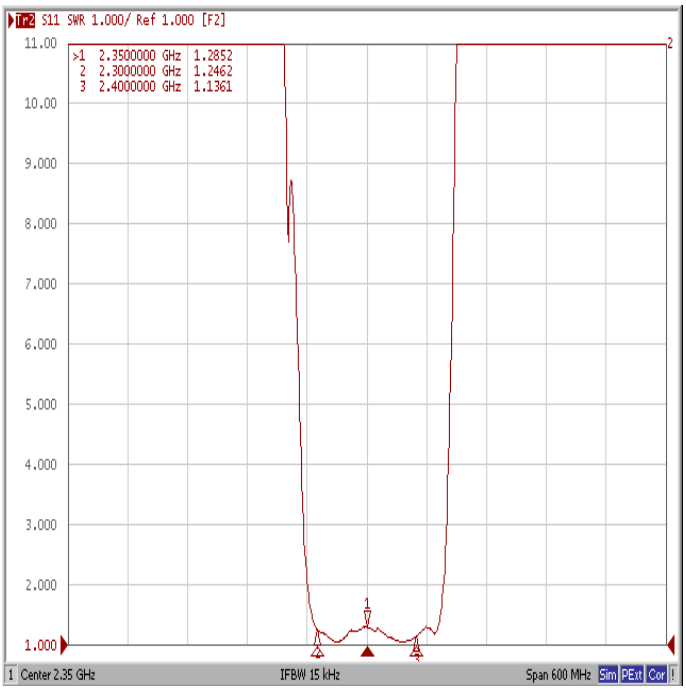
Frequency Response

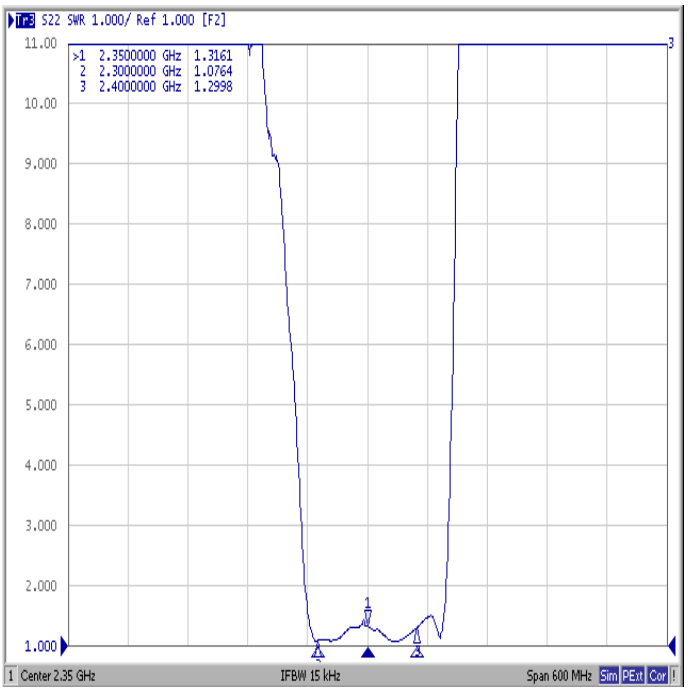




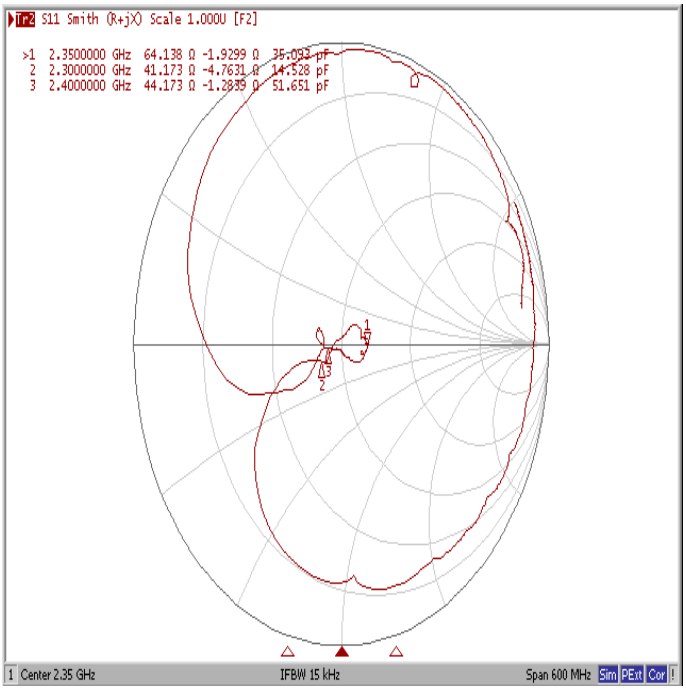
Reflection Functions:

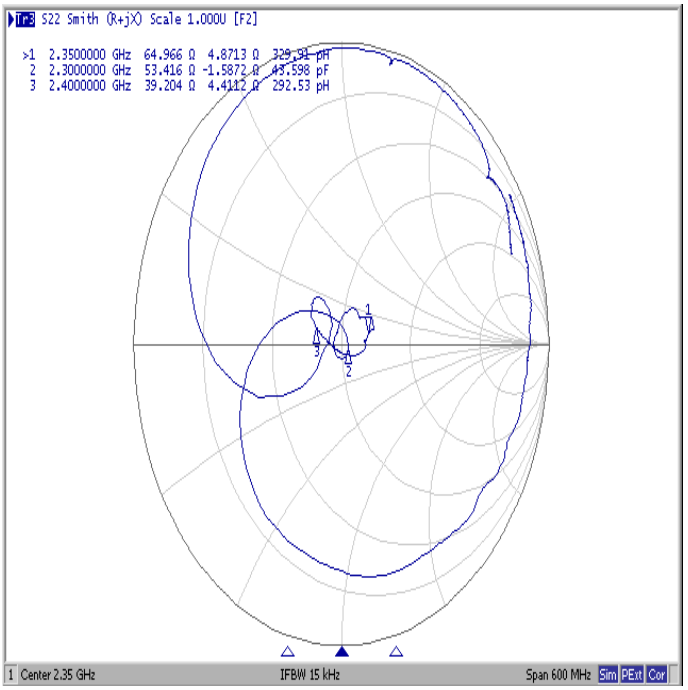
VSWR





Smith Chart

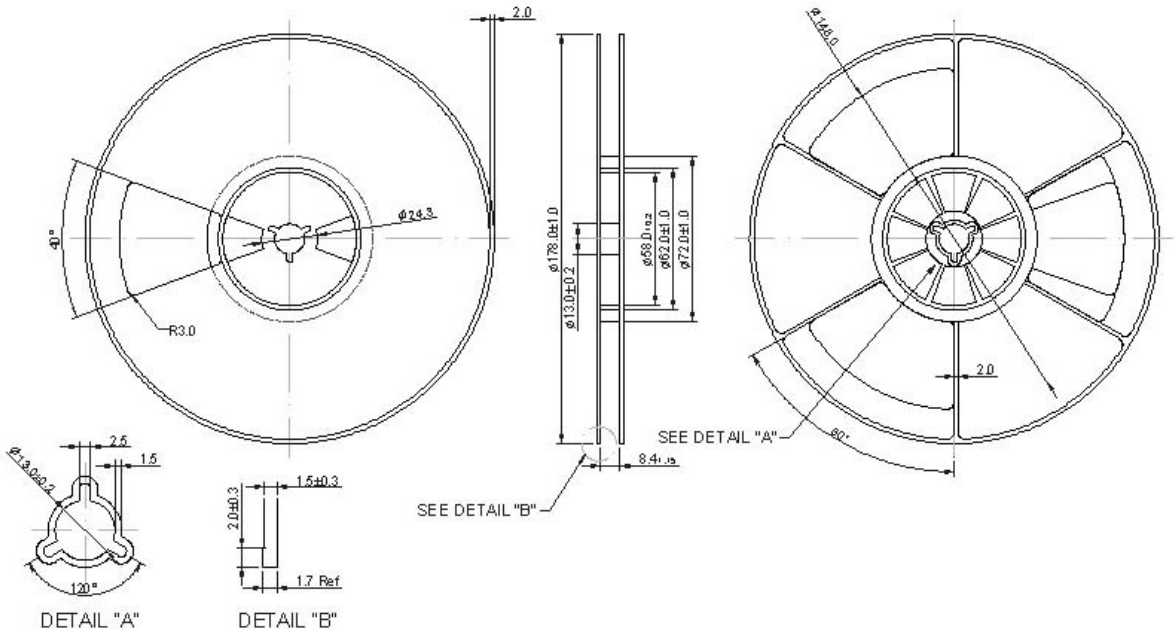




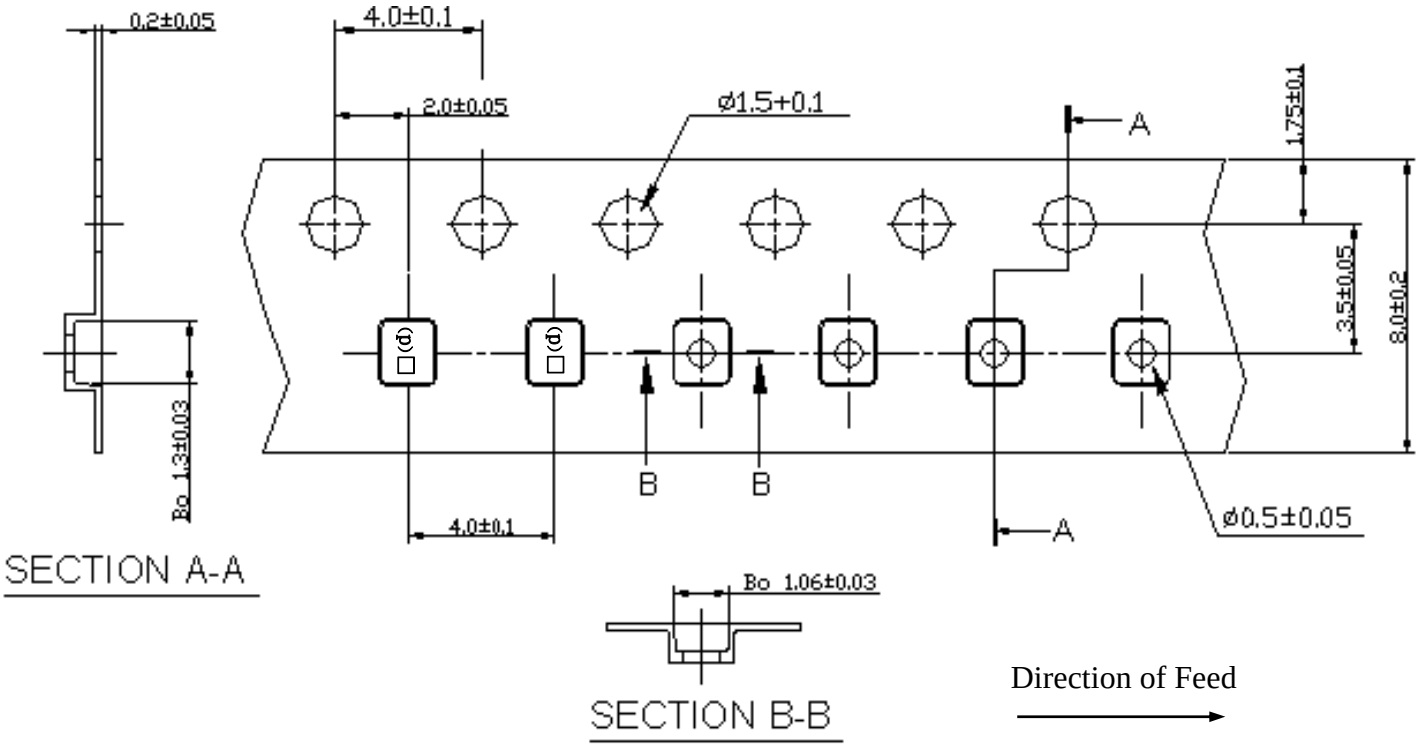
G. <u>PACKING</u>:

1. REEL DIMENSION

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



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.