



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 2332.5 MHz SMD 1.1X0.9 mm (BW=25MHz)

TST Parts No.: TA2379A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approval by: _____ Andy Yu 

Date: _____ 2021/06/11

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 2332.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2379A

REV. NO.:3.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 6 V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 2a

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : Tspec = -40°C to +105°C

Terminating source impedance : Zs = 50 Ω

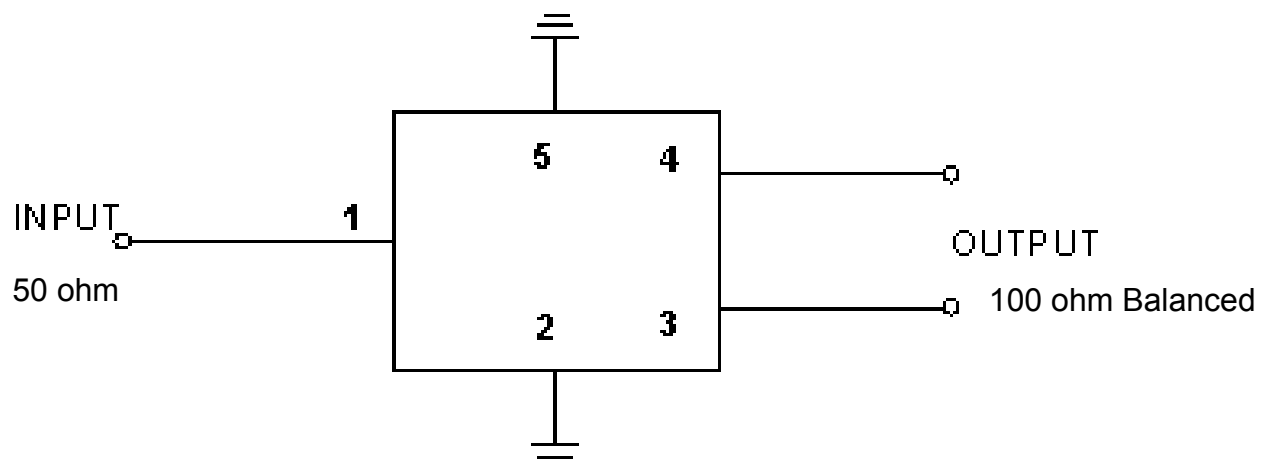
Terminating load impedance : ZL = balanced 100 Ω

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	2332.5	-
Min. Insertion Loss (2320~2345 MHz)	dB	-	1.7	-
Max. Insertion Loss (2320~2345 MHz) IL	dB		1.85	2.9 ¹⁾
Max. Insertion Loss (2320~2345 MHz) IL	dB	-	1.85	3.3
Amplitude Ripple (2320~2345 MHz)	dB _{p-p}	-	0.3	1.3 ¹⁾
Amplitude Ripple (2320~2345 MHz)	dB _{p-p}	-	0.4	1.7
Min. Input Return Loss (2320~2345 MHz)	dB	9	11	-
Min. Output Return Loss (2320~2345 MHz)	dB	8	9.5	-
Variation of amplitude imbalance (2320~2345 MHz)	dB	-2 ¹⁾	-1.1	2.5 ¹⁾
Variation of amplitude imbalance (2320~2345 MHz)	dB	-5	-1.1	3.5
Variation of phase imbalance (2320~2345 MHz)	deg	-15 ¹⁾	-8	12 ¹⁾
Variation of phase imbalance (2320~2345 MHz)	deg	-20	-9	15
Attenuation (refer to min. IL)				
88 ~ 880 MHz	dB	49	52	-
880 ~ 1710 MHz	dB	41	49	-
1710 ~ 1910 MHz	dB	40	47	-
1910 ~ 2090 MHz	dB	39	53	-

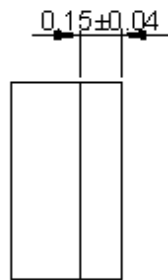
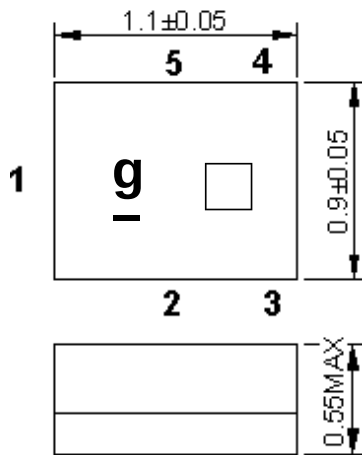
2090 ~ 2190 MHz	dB	35	41	-
2190 ~ 2250 MHz	dB	21	24	-
2250 ~ 2275 MHz	dB	11	20	-
2300 MHz	dB	-	2.7	-
2305 MHz	dB	-	1.1	-
2310 MHz	dB	-	0.6	-
2315 MHz	dB	-	0.2	-
2350 MHz	dB	-	0.2	-
2355 MHz	dB	-	0.4	-
2360 MHz	dB	-	0.7	-
2365 MHz	dB	-	1.6	-
2390 MHz	dB	-	32	-
2400 ~ 2425 MHz	dB	13	18	-
2425 ~ 2500 MHz	dB	21	23	-
2500 ~ 2600 MHz	dB	28	30	-
2600 ~ 2800 MHz	dB	35	37	-
2800 ~ 3000 MHz	dB	38	45	-
3000 ~ 4000 MHz	dB	33	37	-
4000 ~ 4800 MHz	dB	29	44	-
4800 ~ 6000 MHz	dB	25	42	-
Group Delay Variation (2320~2345 MHz) GDV	ns	-	2	15 ¹⁾
Group Delay Variation (2320~2345 MHz) GDV	ns	-	2	20
Package size	mm	SMD 1.1x0.9		

1) Valid for temperature -20°C ~ +85°C
Insertion Loss include 0.2dB PCB loss

C. MEASUREMENT CIRCUIT:



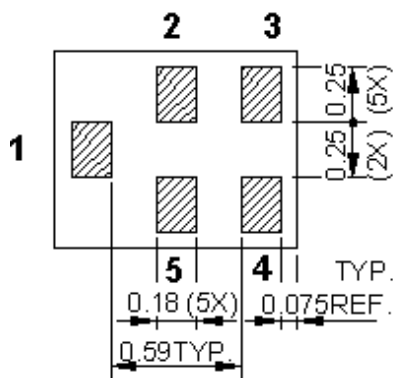
D.OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm



1 : Unbalanced Input

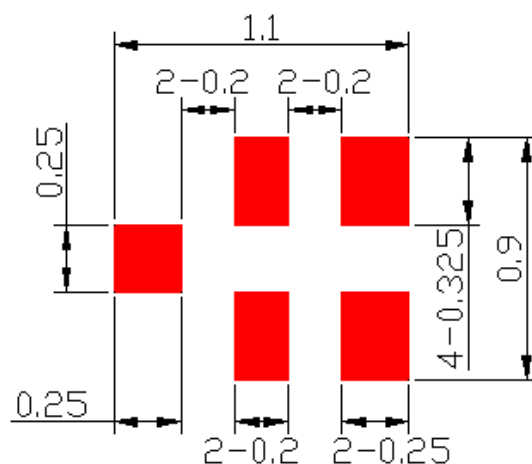
3, 4 : Balanced Output

2, 5 : Ground

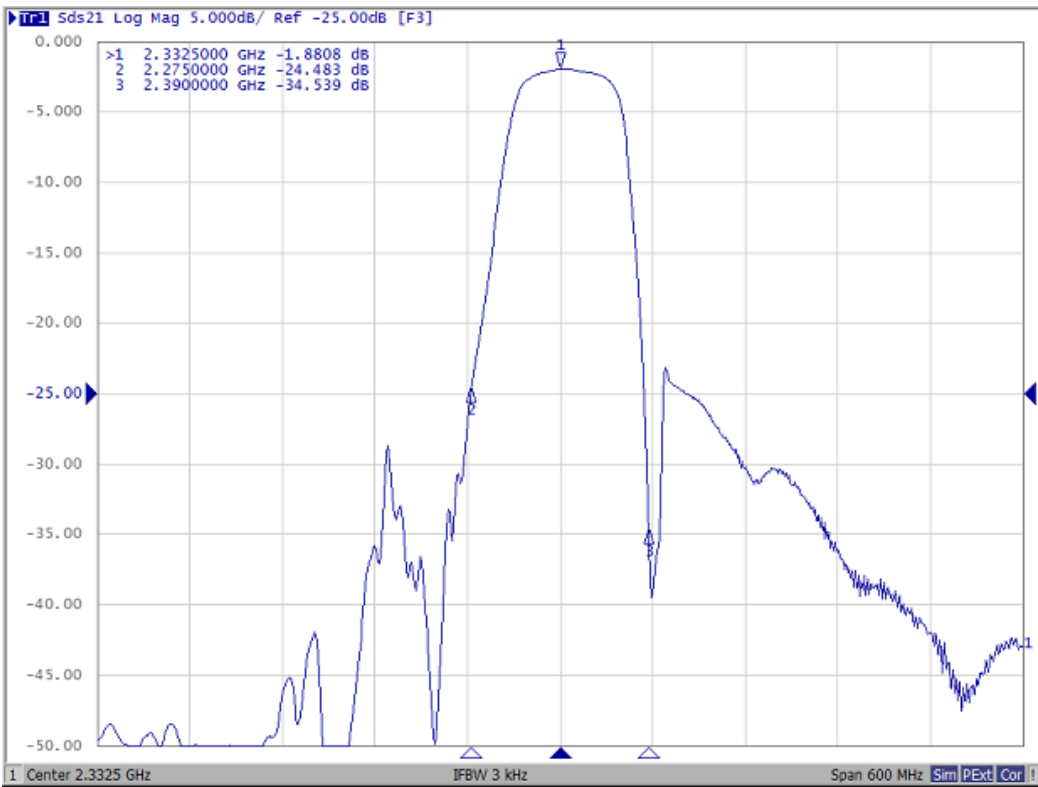
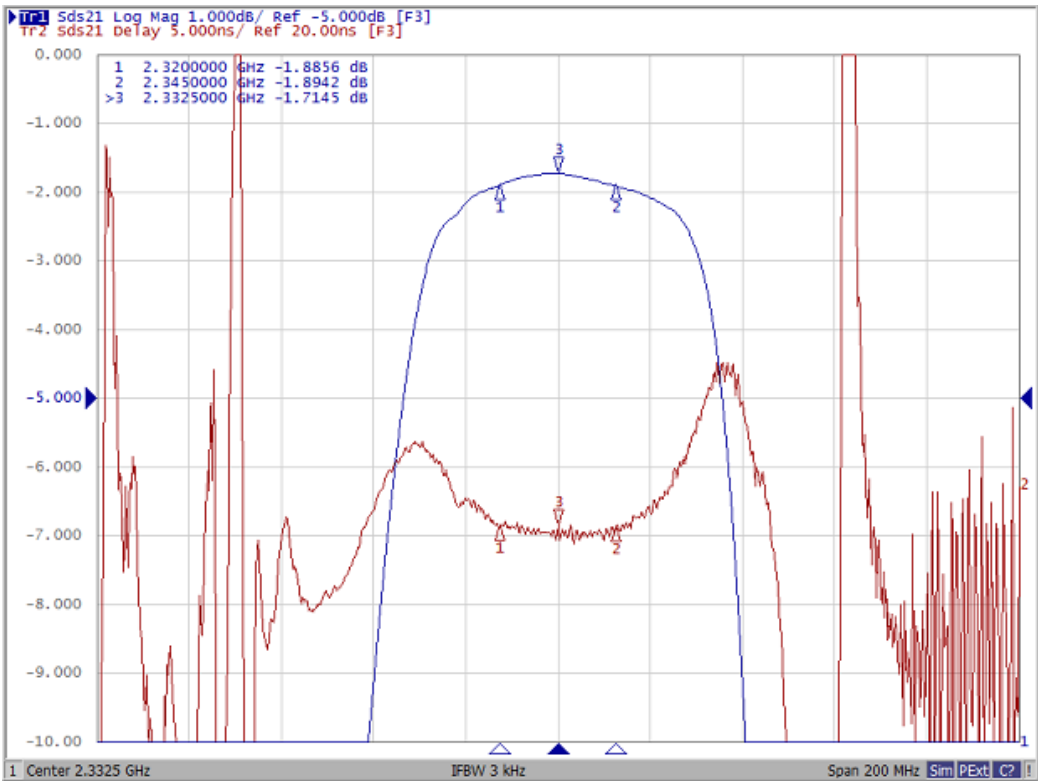
□ : Year/Month Code (Follow the table)

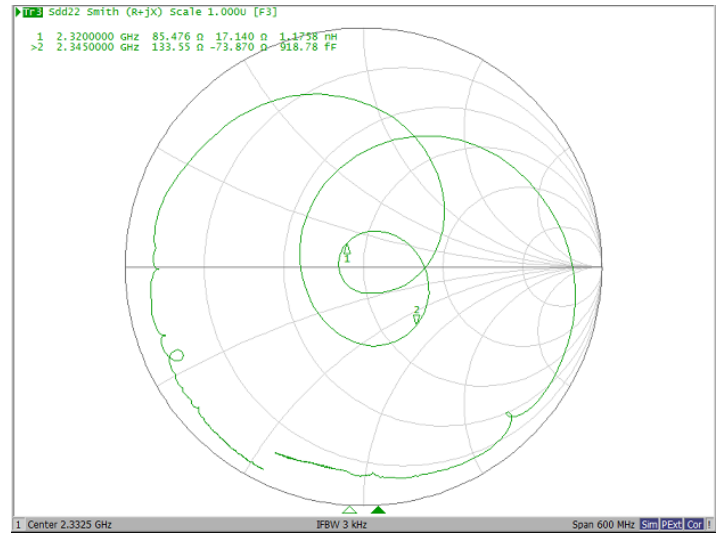
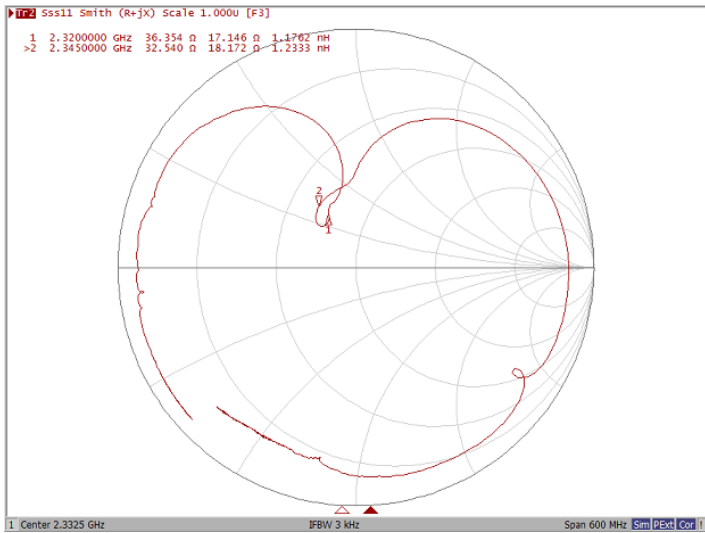
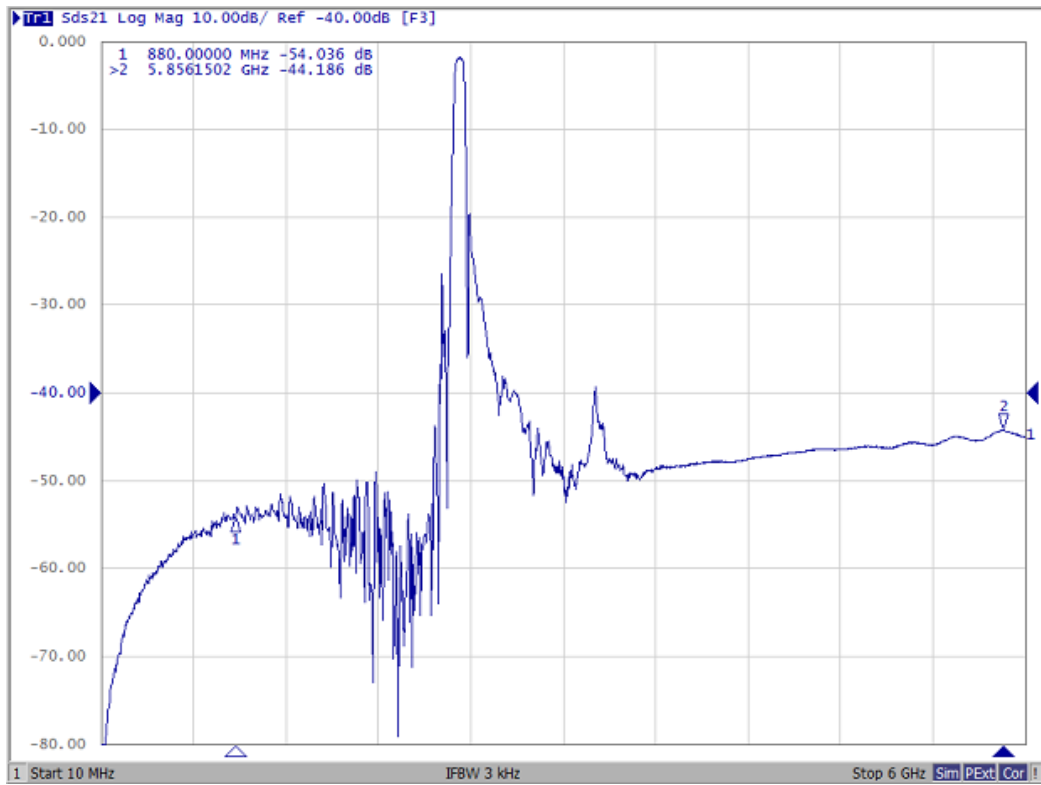
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013/2021	A	B	C	D	E	F	G	H	J	K	L	M
2014/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015/2023	a	b	c	d	e	f	g	h	j	k	l	m
2016/2024	n	p	q	r	s	t	u	v	w	x	y	z
2017/2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018/2026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

E. PCB Footprint :



F. Frequency Characteristics:

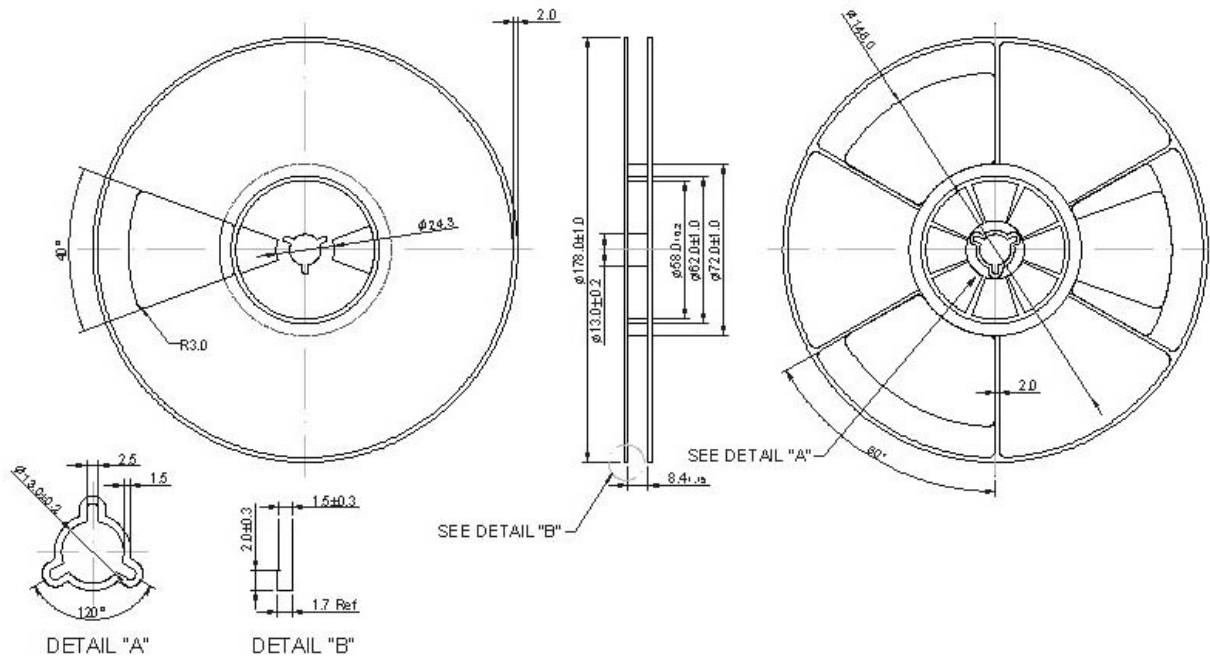




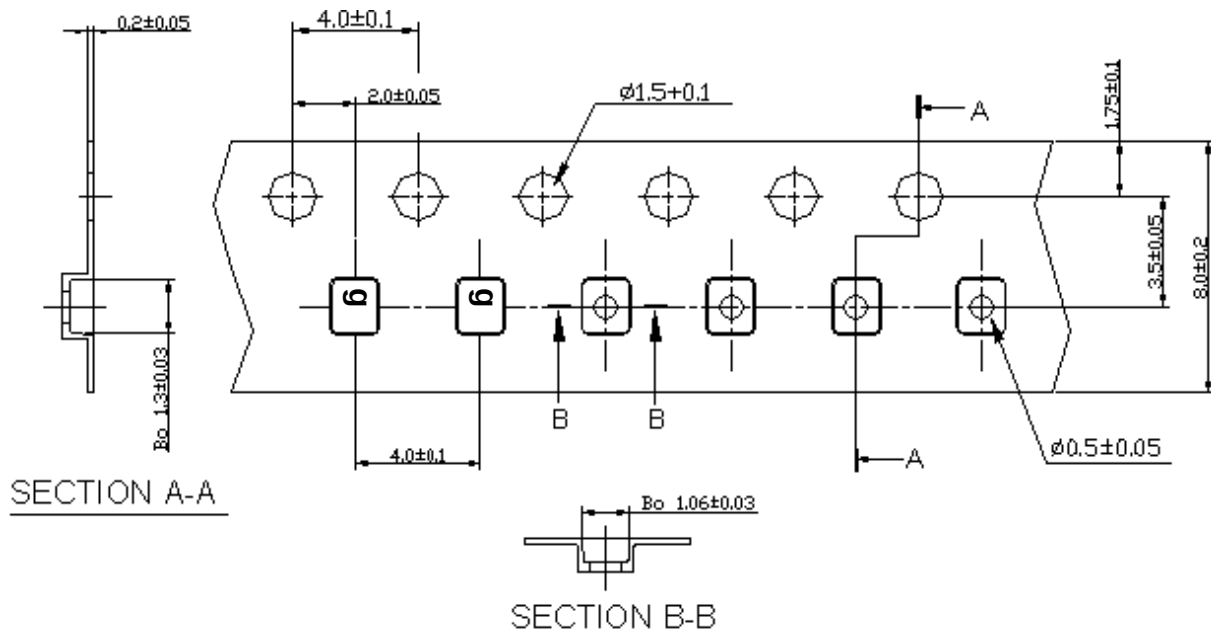
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



Direction of Feed



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 245~260°C peak (min. 10sec).
4. Time : 2 times.

