



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 Name: SAW Filter 1207.5 MHz SMD 1.1X0.9 mm (BW=83MHz)

TST Parts No.: TA2637A

Customer Parts No.: _____

Customer signature required

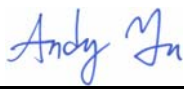
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approval by: _____ Andy Yu 

Date: _____ 2021/08/02

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.



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

SAW Filter 1207.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2637A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm (5000h)
2. DC Voltage : 3 V
3. Operating Temperature: -40°C to +85°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 3



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : Tspec = -30°C to +85°C

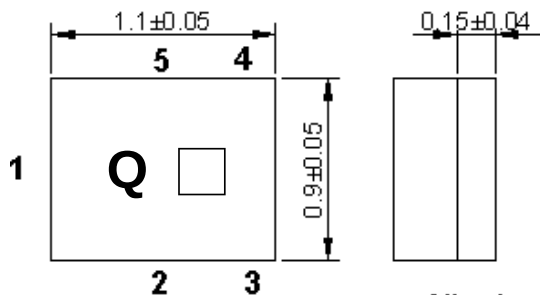
Terminating source impedance : Zs = 50 Ω

Terminating load impedance : ZL = 50 Ω

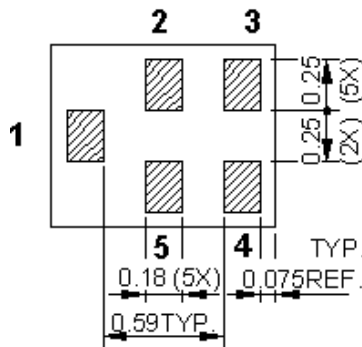
Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	1207.5	-
Insertion Loss (1166.22~1205.094 MHz)	IL	-	2.3	3
Insertion Loss (1205.094~1226.577 MHz)	IL	-	1.9	3
Insertion Loss (1226.577~1228.623 MHz)	IL	-	1.9	3
Insertion Loss (1228.623~1249.136 MHz)	IL	-	2.5	3.5
Amplitude Ripple (1166.22~1205.094 MHz)	dB _{p-p}	-	1	1.8
Amplitude Ripple (1205.094~1226.577 MHz)	dB _{p-p}	-	0.5	1
Amplitude Ripple (1226.577~1228.623 MHz)	dB _{p-p}	-	0.2	1
Amplitude Ripple (1228.623~1249.136 MHz)	dB _{p-p}	-	0.6	1.5
VSWR (1166.22~1249.136 MHz)		-	1.7	2.1
Group Delay Ripple (1166.22~1205.094 MHz)	ns	-	12	30
Group Delay Ripple (1205.094~1226.577 MHz)	ns	-	2	8
Group Delay Ripple (1226.577~1228.623 MHz)	ns	-	1	10
Group Delay Ripple (1228.623~1249.136 MHz)	ns	-	3	20
Attenuation (refer to 0 dB)				
698 ~ 748 MHz	dB	35	41	-
807 ~ 915 MHz	dB	28	32	-

925 ~ 960	MHz	dB	27	31	-
1427 ~ 1463	MHz	dB	25	28	-
1626.5 ~ 1660.5	MHz	dB	28	34	-
1695 ~ 1785	MHz	dB	20	35	-
1850 ~ 2025	MHz	dB	20	33	-
2300 ~ 2690	MHz	dB	27	31	-
3400 ~ 3800	MHz	dB	20	28	-
4400 ~ 4900	MHz	dB	20	25	-
5150 ~ 5925	MHz	dB	20	25	-
Temperature Coefficient		ppm/K	-	-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

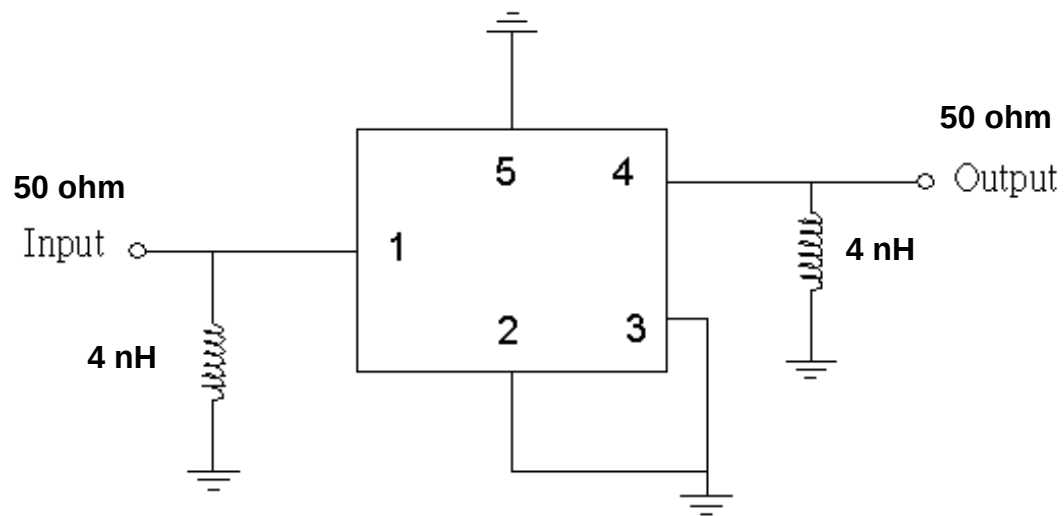


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

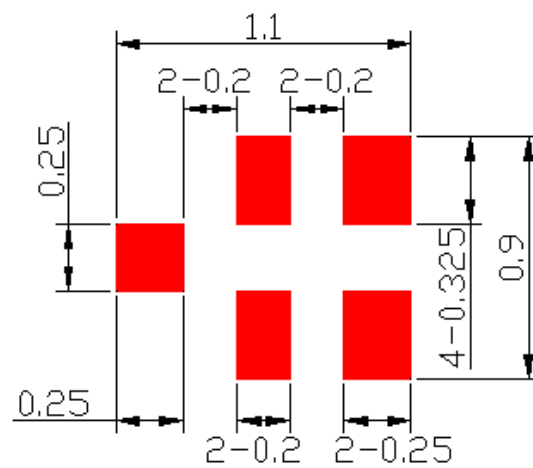
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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>
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>

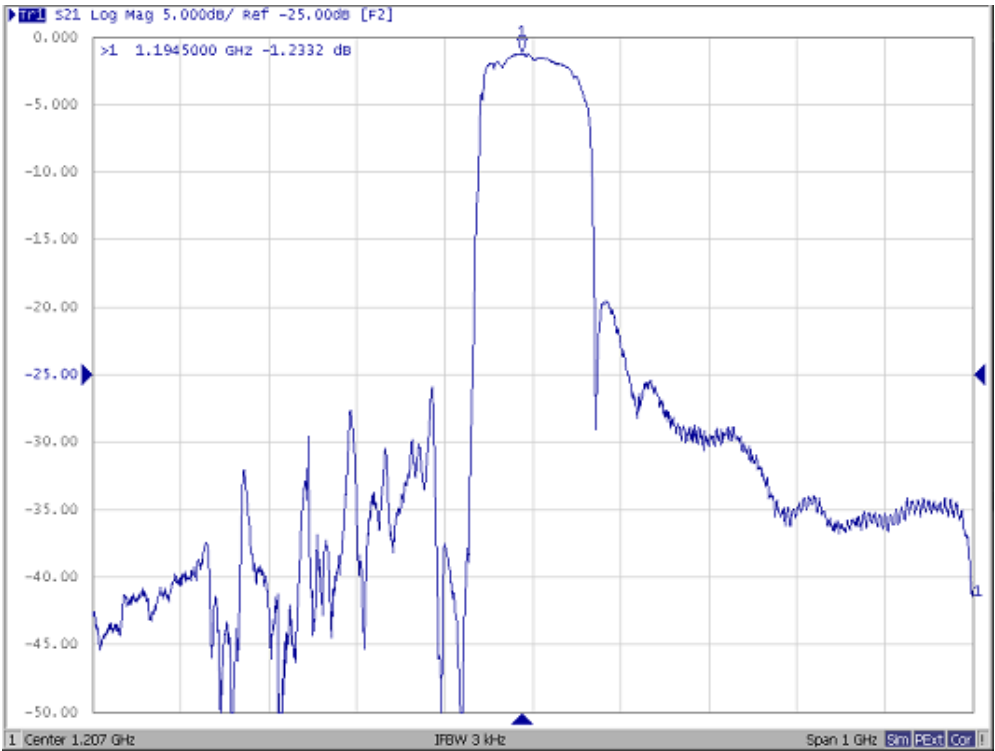
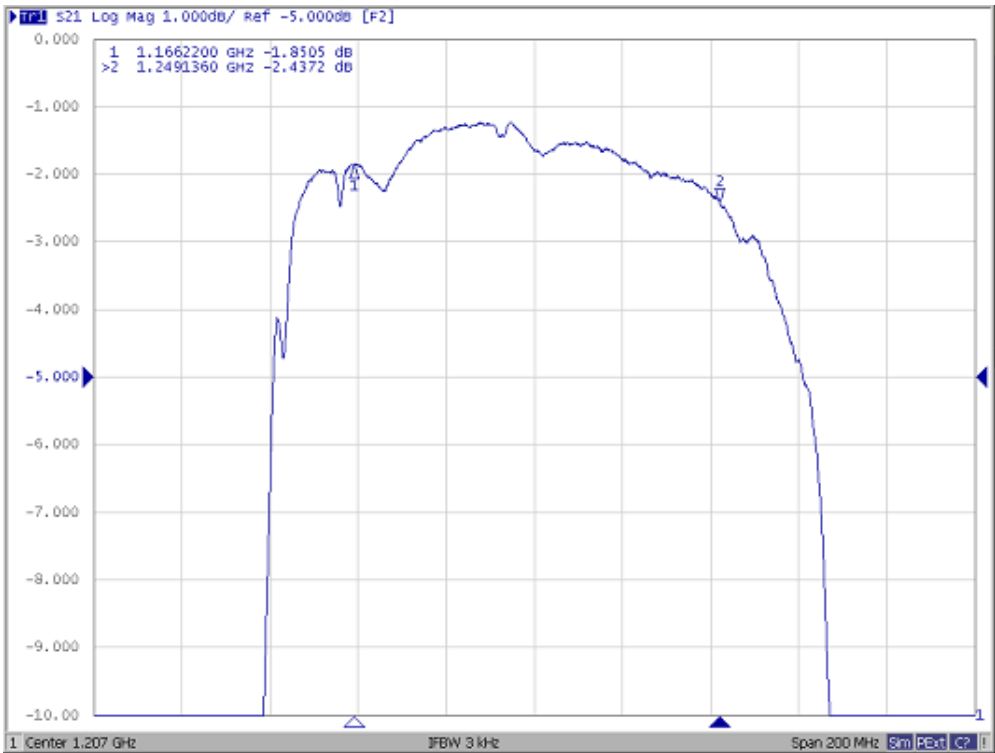
D. MEASUREMENT CIRCUIT:

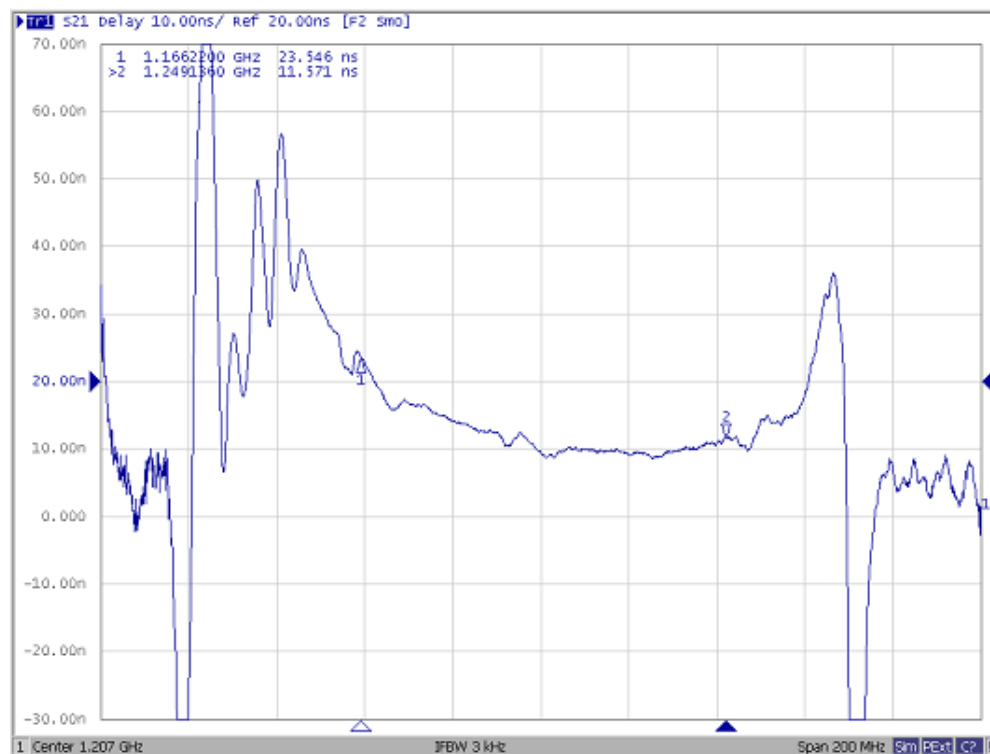
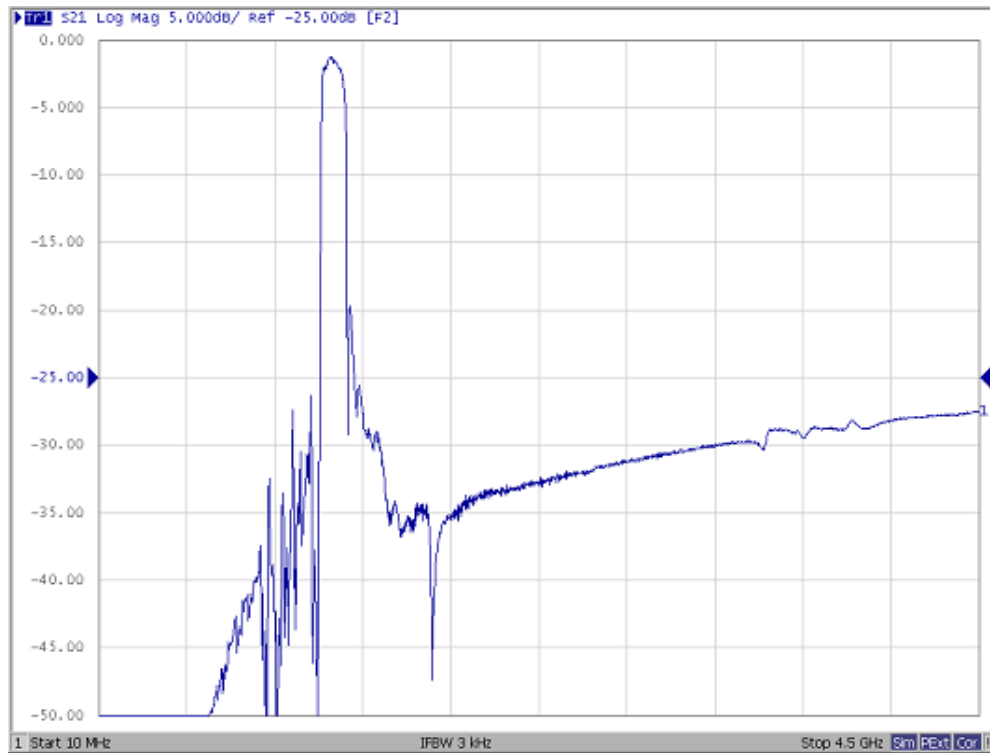


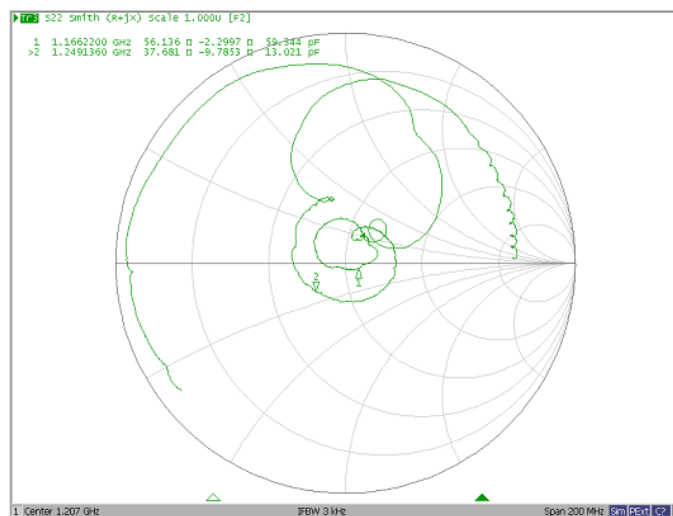
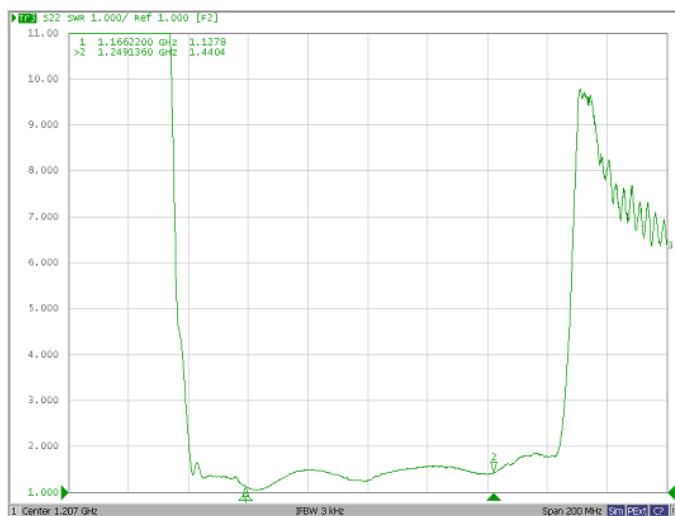
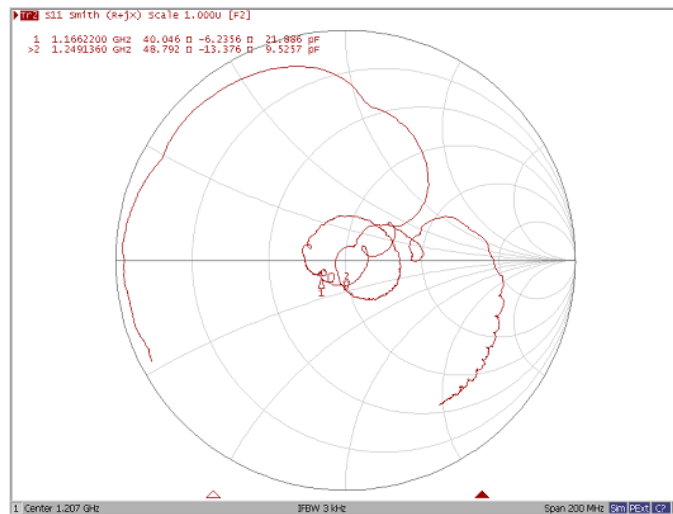
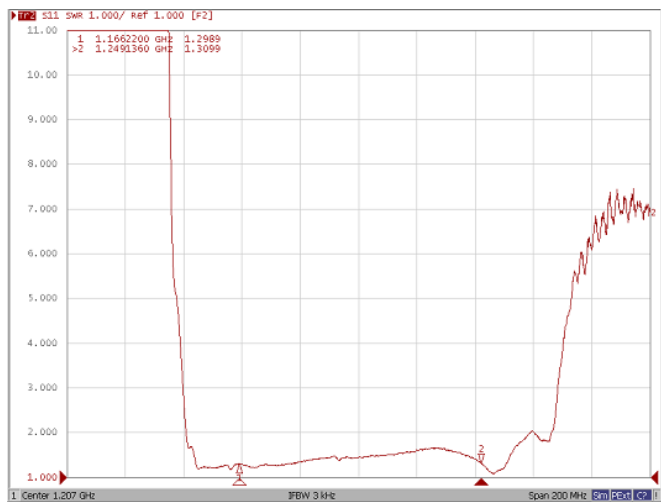
E. PCB Footprint :



F. Frequency Characteristics:



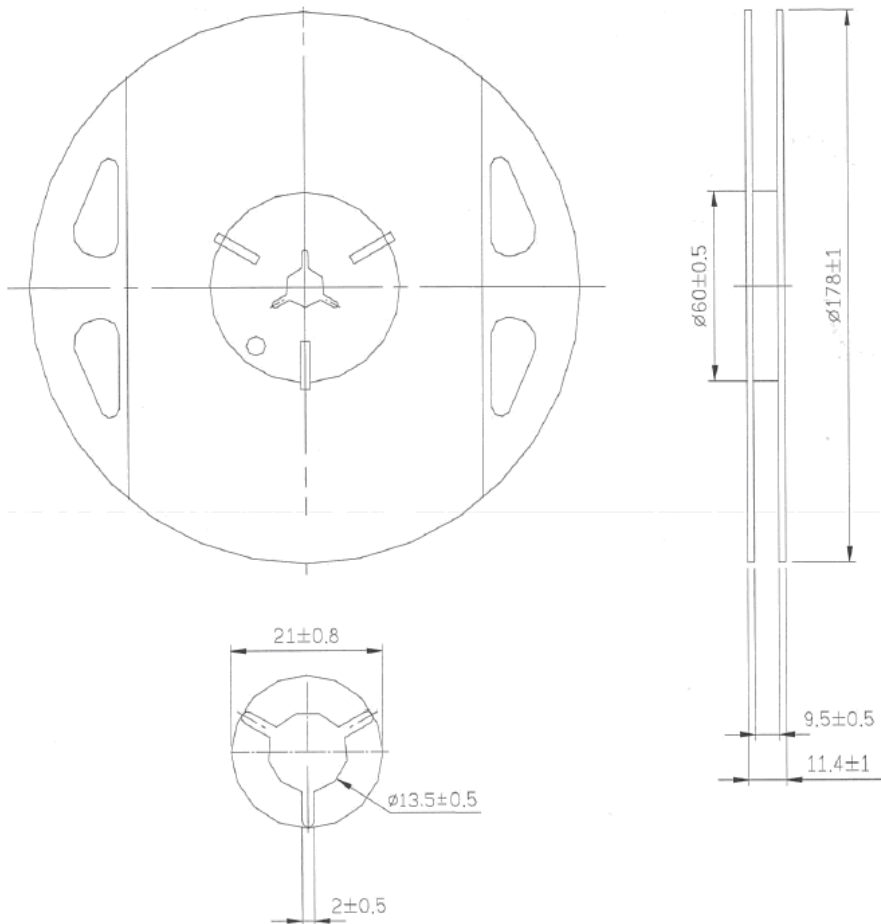




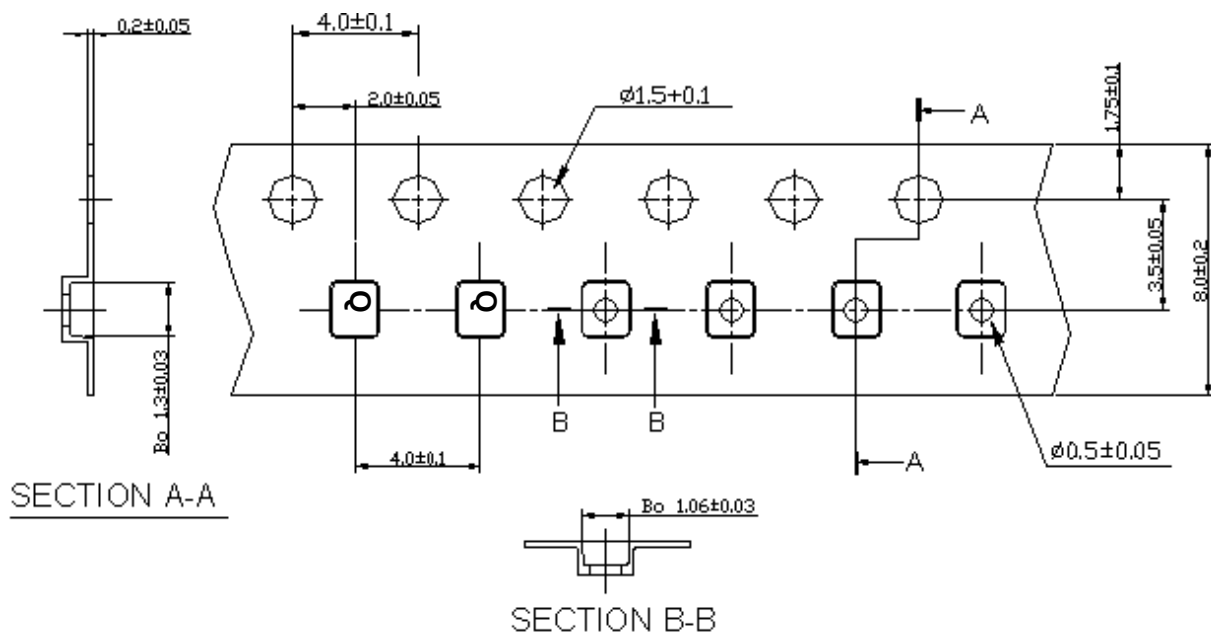
G. PACKING:

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.

