



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: ttsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: 121.5MHz 26kHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1120A

Customer Parts No.: _____

Customer signature required

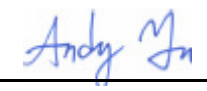
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Andy Yu 

Date: _____ 01 / 21 / 2019

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 121.5 MHz

MODEL NO.:TB1120A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 25 dBm
2. DC Voltage : 5V
3. Operating Temperature: -43°C to +85°C
4. Storage Temperature: -55°C to +85°C
5. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

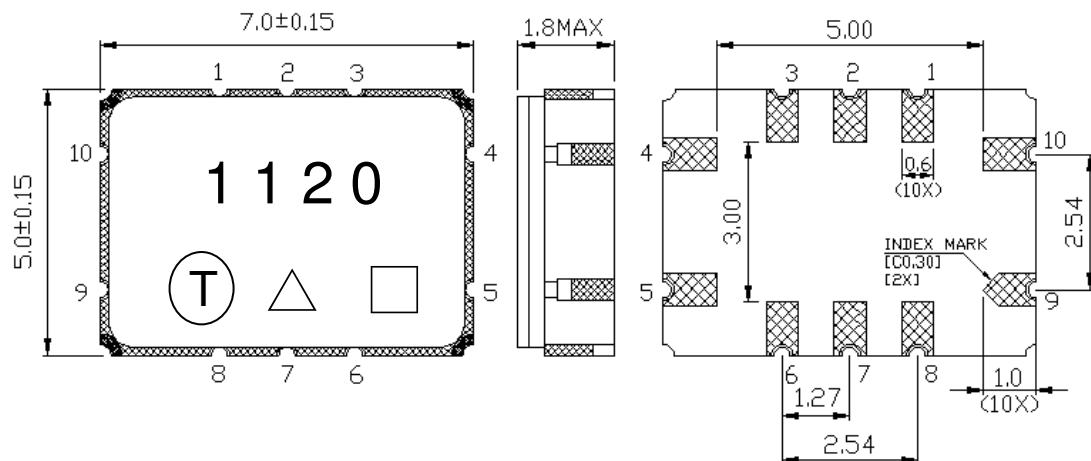
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS: (Ambient temperature: 25°C)

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	121.5	-
Min Insertion loss IL	dB	-	2.6	3.8
Amplitude Ripple (Fc±13KHz)	dB	-	0.15	1
1 dB Bandwidth	kHz	25	75	-
15 dB Bandwidth	kHz	-	138	400
Relative Attenuation (relative to IL)				
117 ~ 121.1 MHz	dB	40	56	-
121.1 ~ 121.3 MHz	dB	15	52	-
121.7 ~ 121.9 MHz	dB	15	54	-
121.9 ~ 126 MHz	dB	40	50	-
Temperature coefficient of frequency TCf		-0.032 ppm/C^2		

Note1. Considering -18 KHz frequency shift from -43°C to +85°C

C.OUTLINE DRAWING:



#9: Input

#10: Input Ground

#4: Output

#5: Output Ground

Others: Ground

□: Week Code

Unit: mm

△: Product / Year Code

Product / Year Code: Four year cycle

Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	<u>B</u>	<u>b</u>

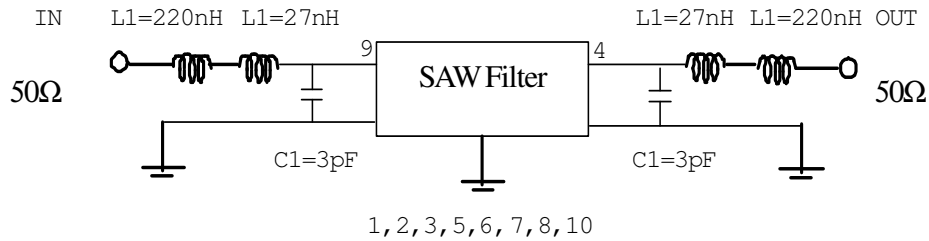
Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

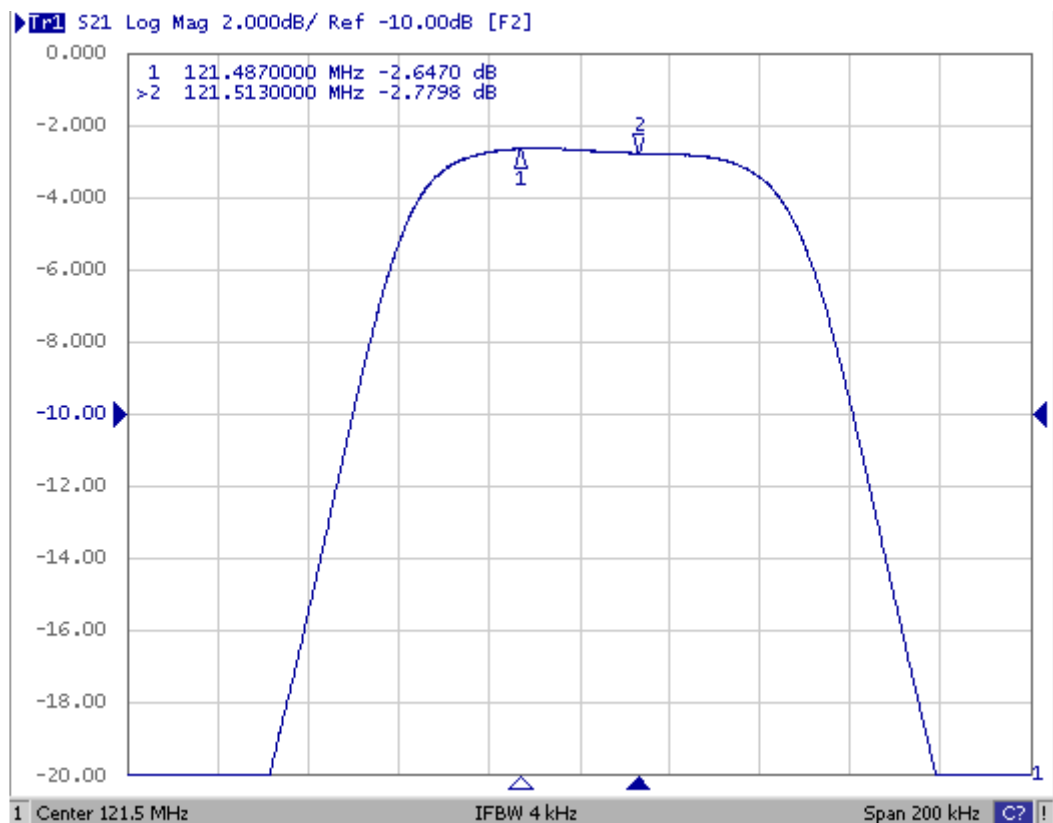
D. MEASUREMENT CIRCUIT:

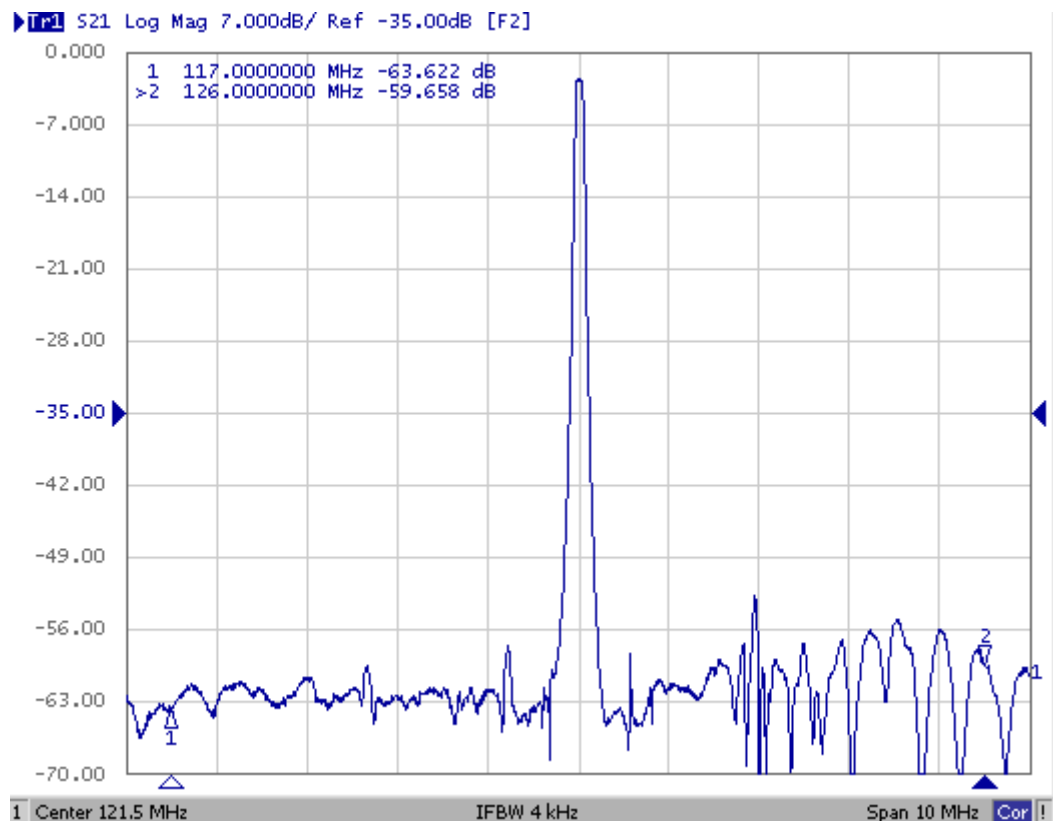
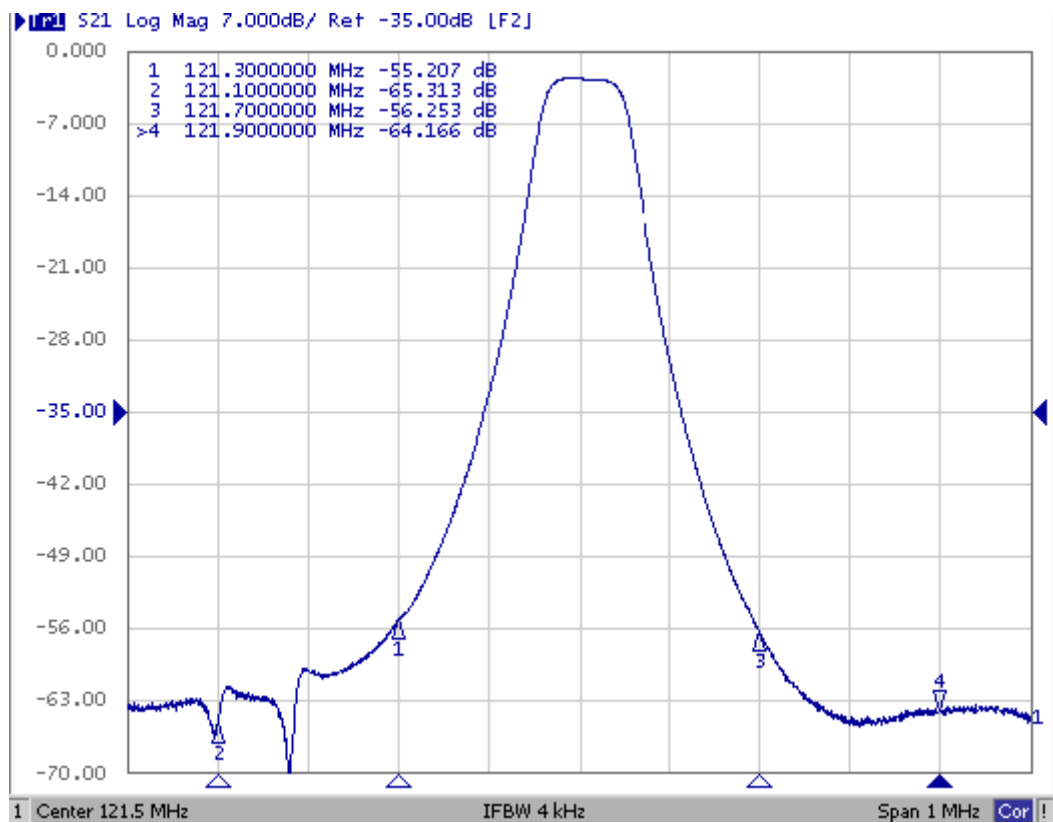
50 Ohm Test circuit

HP Network analyzer

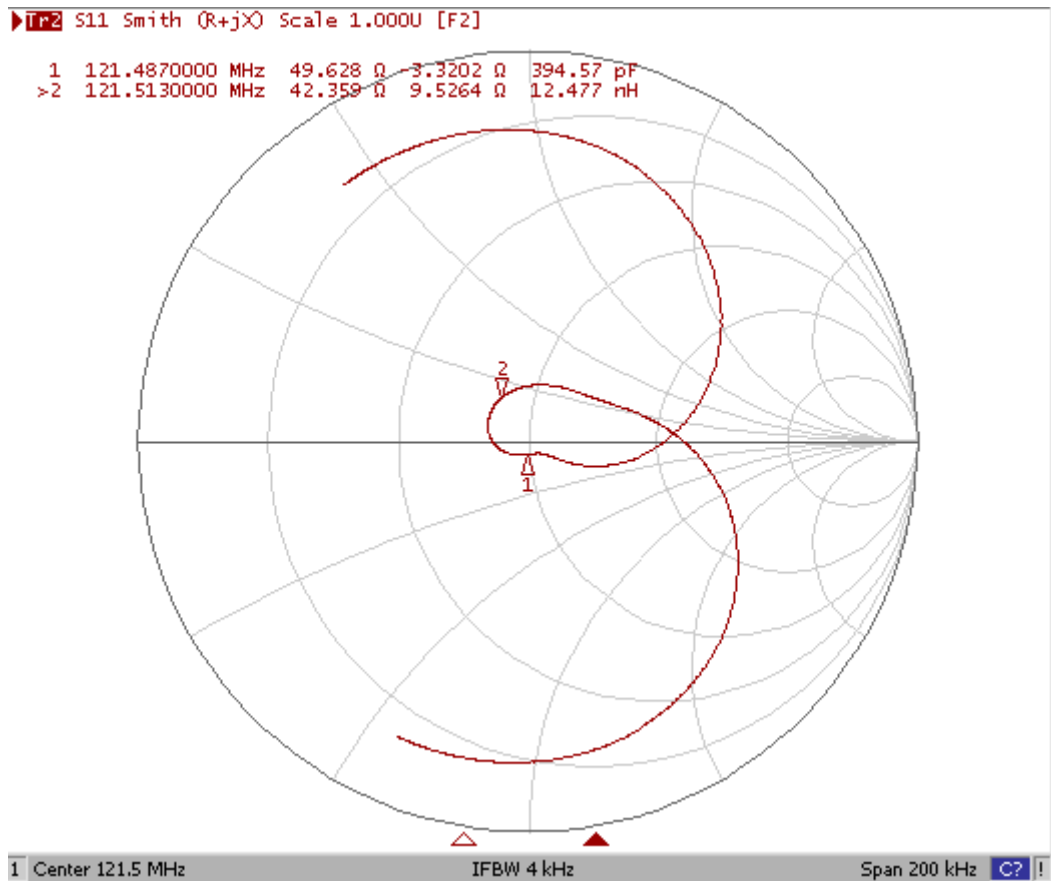


E. FREQUENCY CHARACTERISTICS:

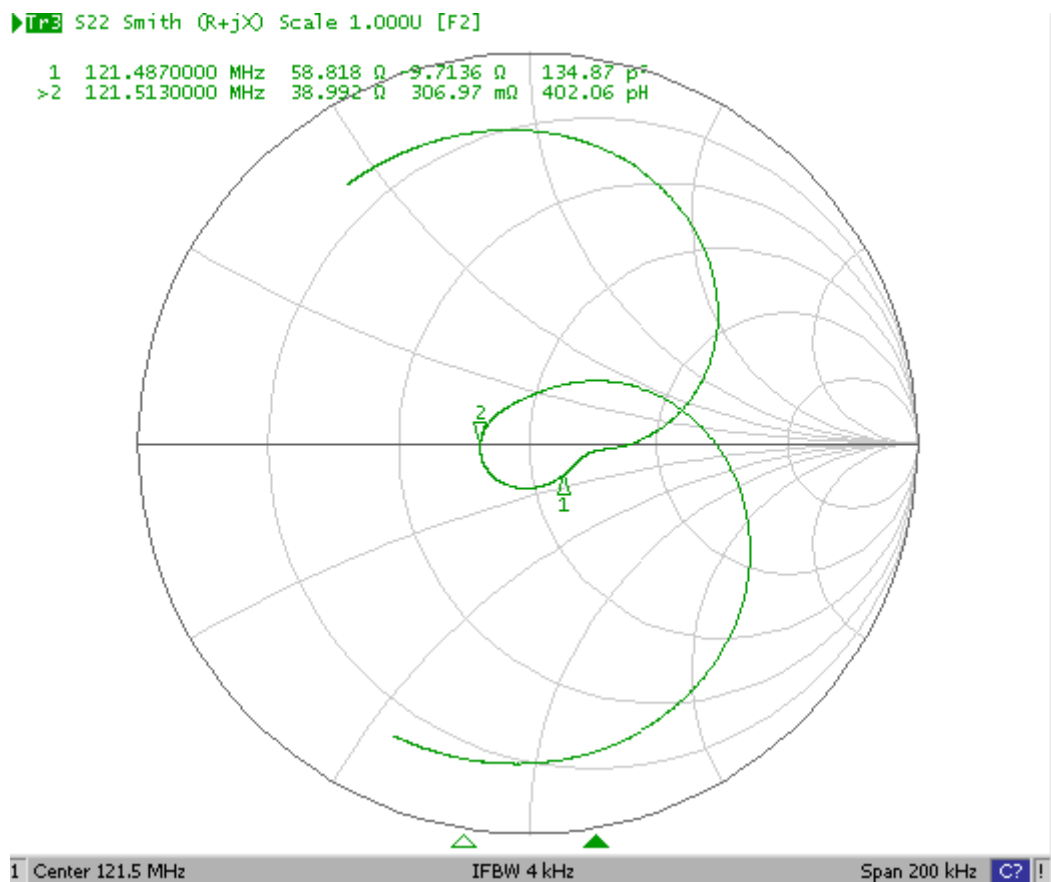




Smith S11



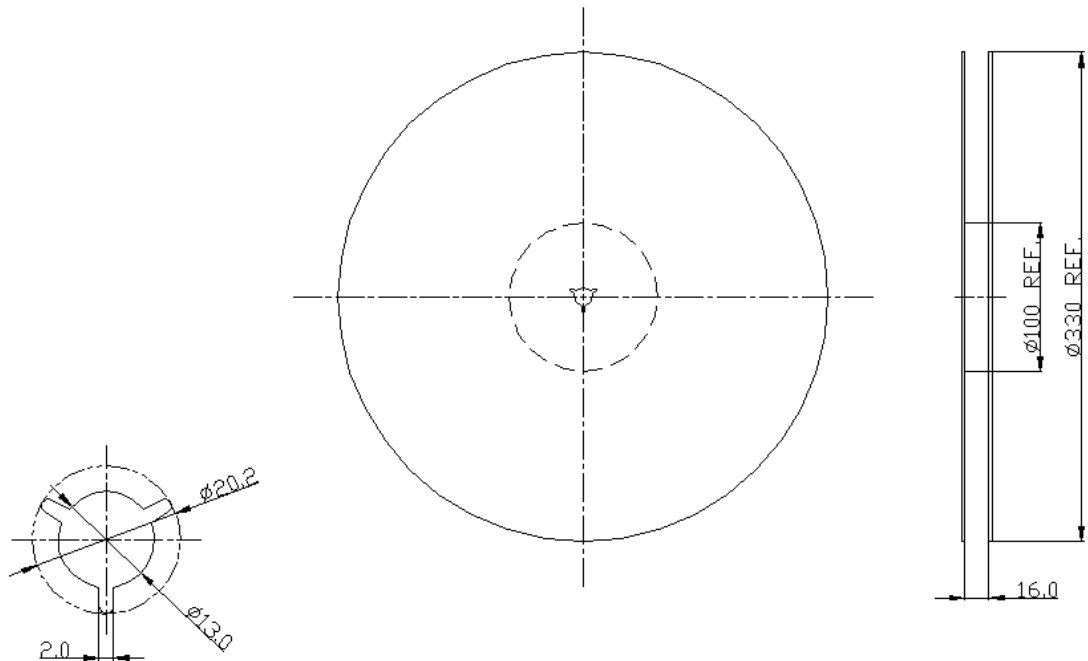
Smith S22



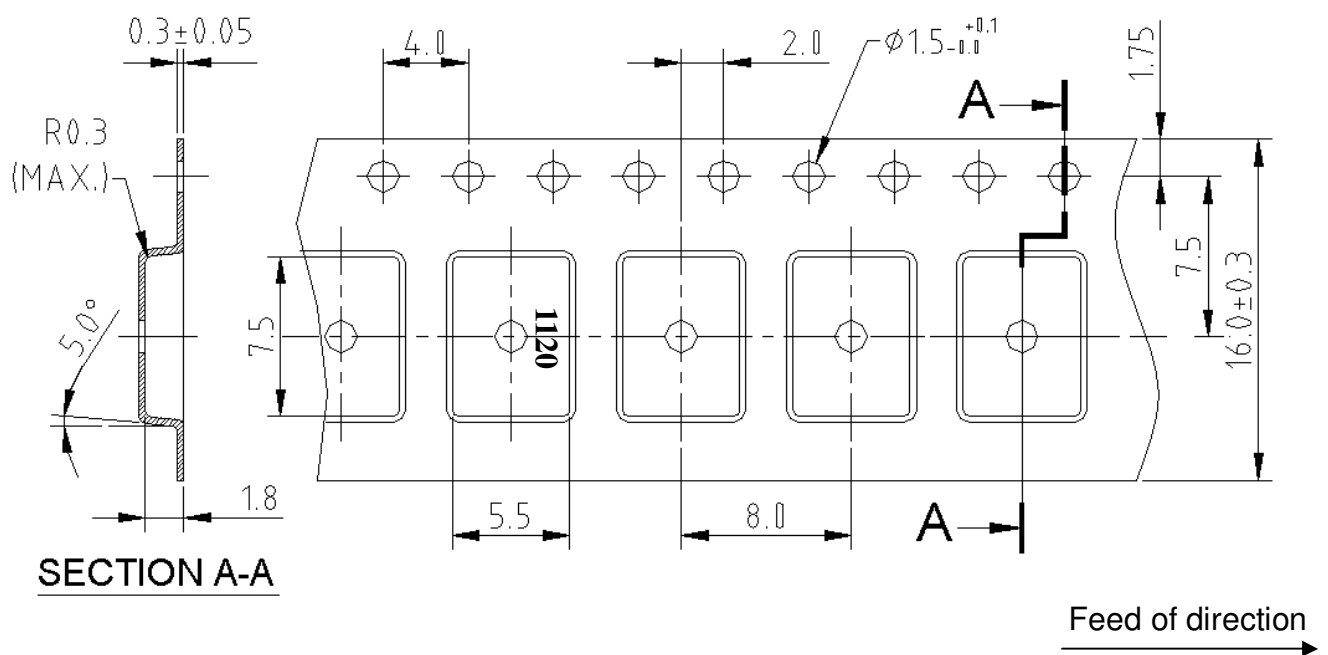
F. PACKING:

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°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.

