



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 897.5 MHz (BW 35 MHz) SMD 1.4 x 1.1mm

TST Part No.: TA2642A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/07/02

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.



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SAW Filter 897.5 MHz (BW 35 MHz) SMD 1.4 x 1.1mm

MODEL NO.:TA2642A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitive Level: Level 3 (MSL3)
6. ESD 50V(MM), 100V(HBM).

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

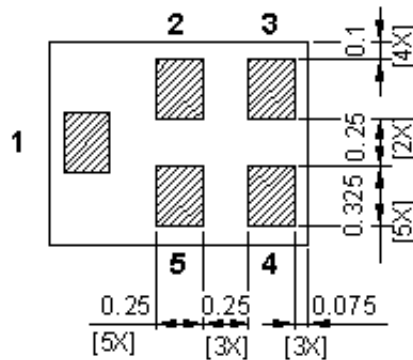
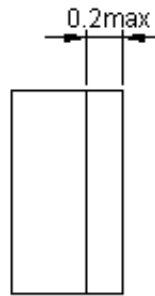
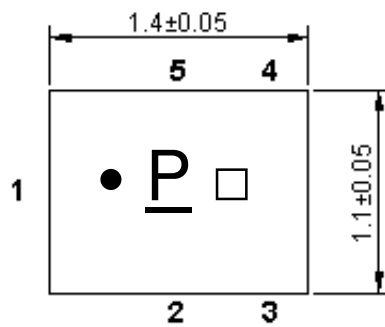
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

Item	Unit	Min	Typ	Max
Center frequency	MHz	-	897.5	-
Insertion Loss (880.0 – 915.0 MHz)	dB	-	2.0	4.0
Amplitude Ripple (880.0 – 915.0 MHz)	dB	-	0.8	2.5
VSWR (880.0 – 915.0 MHz)	dB	-	1.6	2.2
Attenuation (Reference level from 0 dB)				
10 – 835 MHz	dB	35	45	-
835 – 870 MHz	dB	20	38	-
925.4 – 935 MHz	dB	12	20	-
935 – 960 MHz	dB	28	34	-
960 – 1760 MHz	dB	30	45	-
1760 – 1830 MHz	dB	28	45	-
1830 – 2640 MHz	dB	25	38	-
2640 – 2745 MHz	dB	25	38	-
2745 – 5000 MHz	dB	15	22	-
5000 – 6000 MHz	dB	10	16	-
Temperature coefficient of Frequency	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

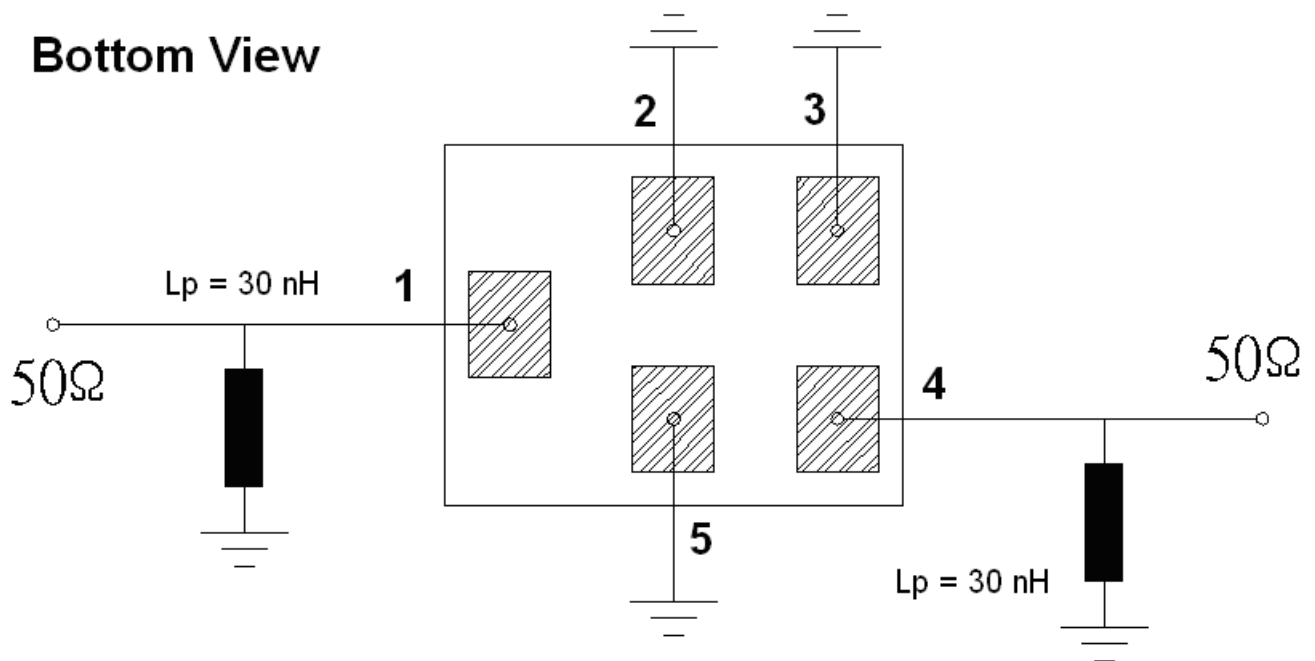
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

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

Bottom View

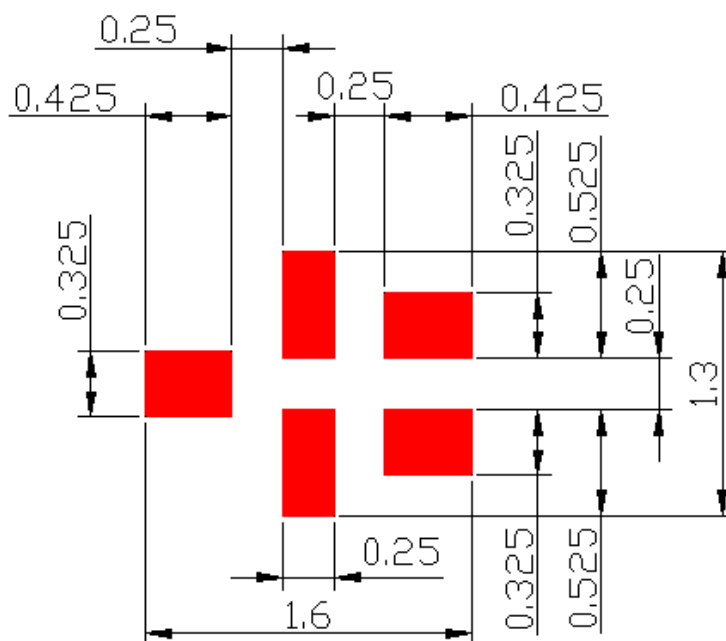


(1): Unbalance Port

(4): Unbalance Port

Others: Ground

E. PCB Footprint:

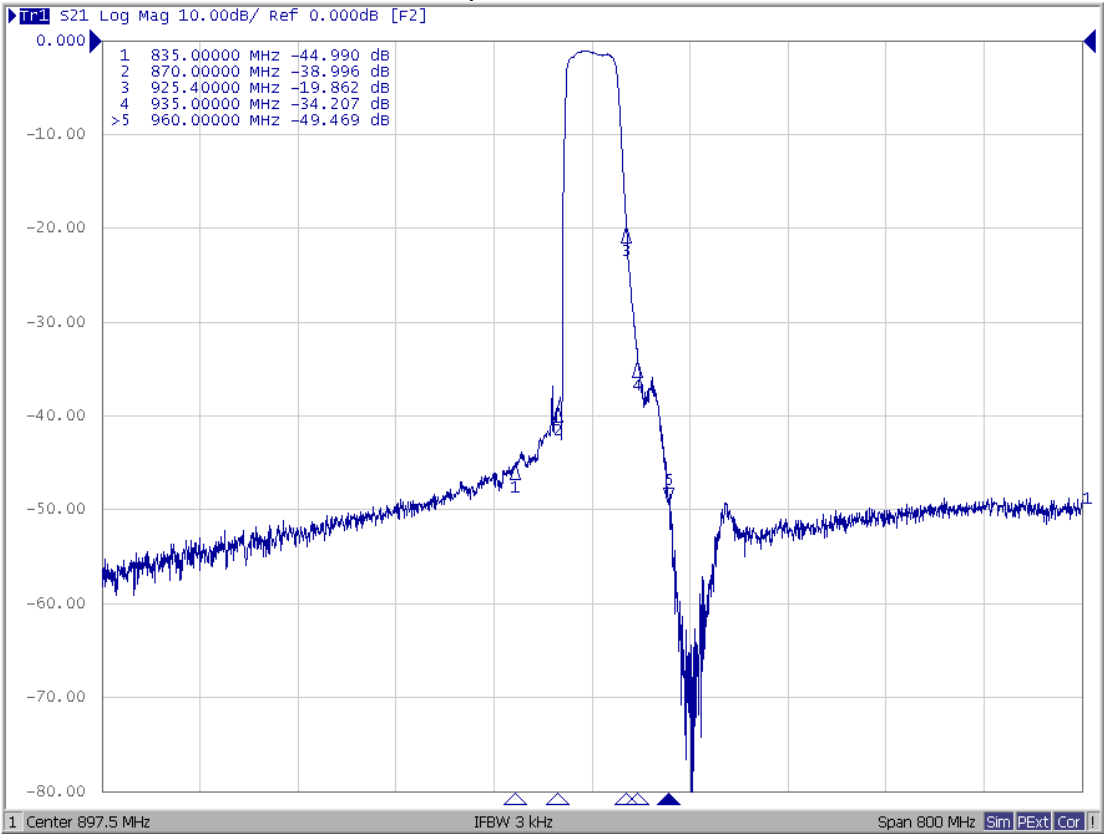


: Land Pattern

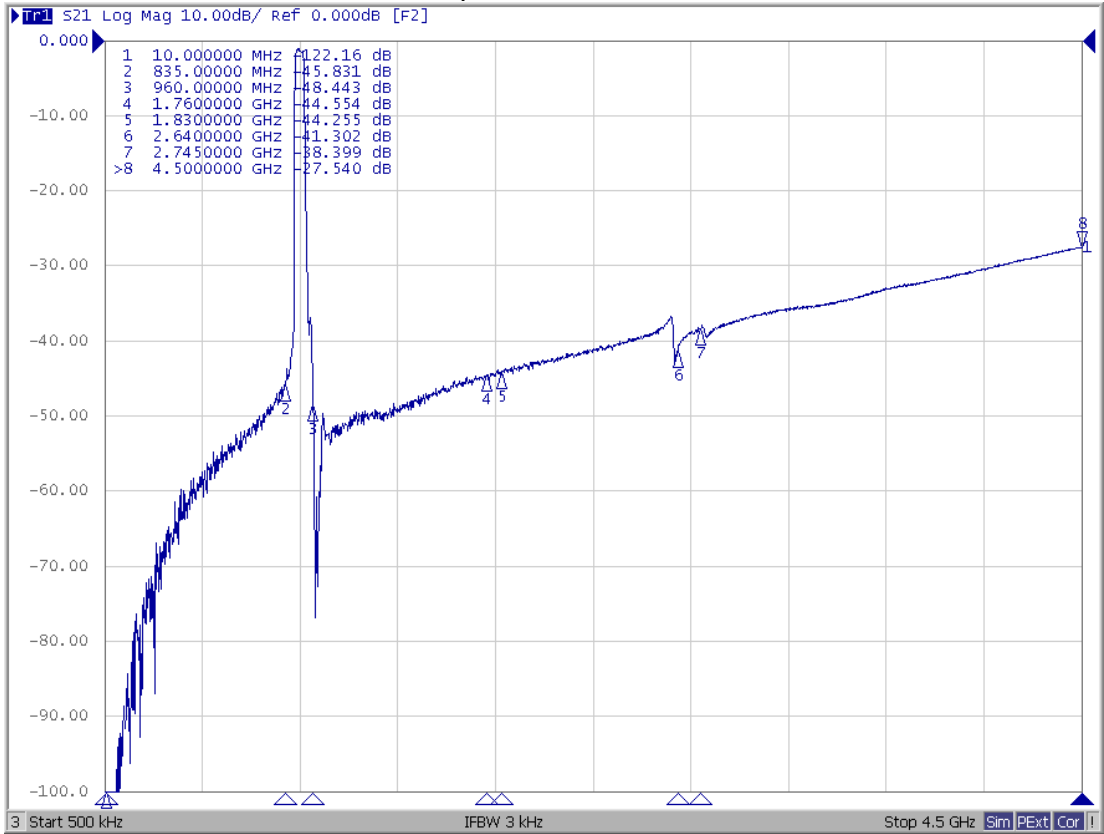
Unit : mm

F. Frequency Characteristics:

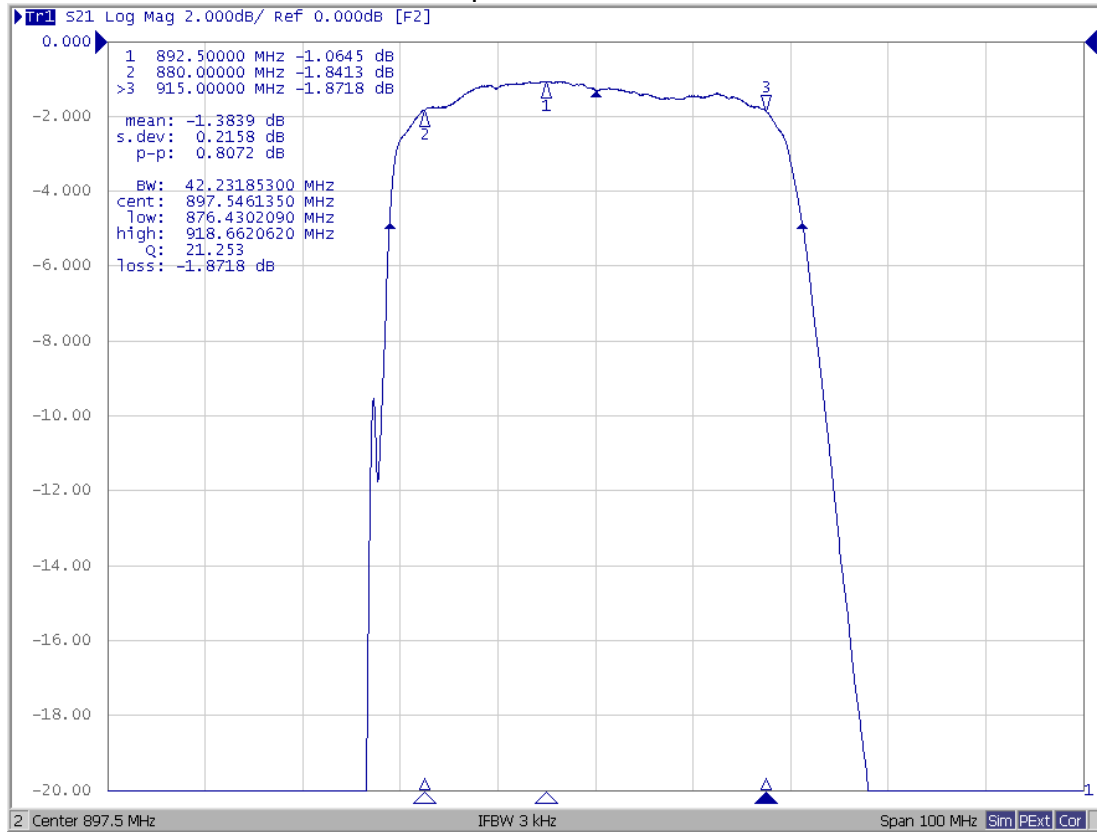
Span 800 MHz



Span 8000 MHz

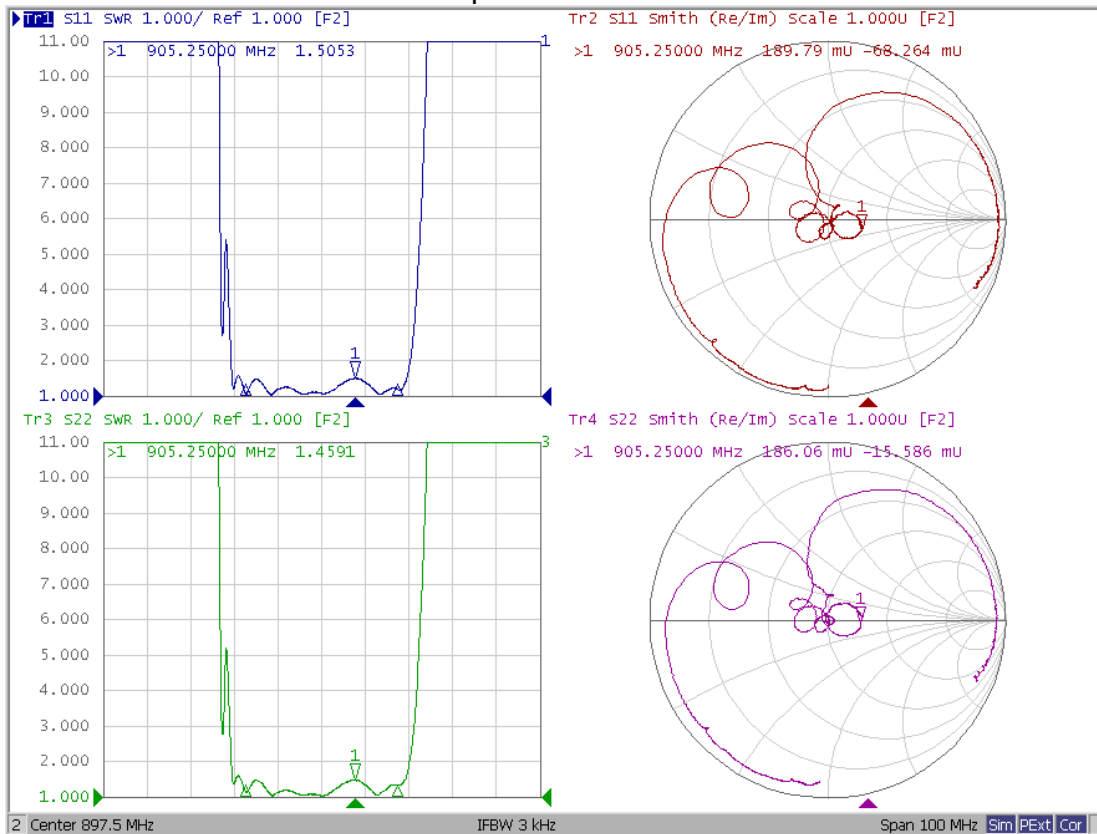


Span 100 MHz



Reflection Functions:

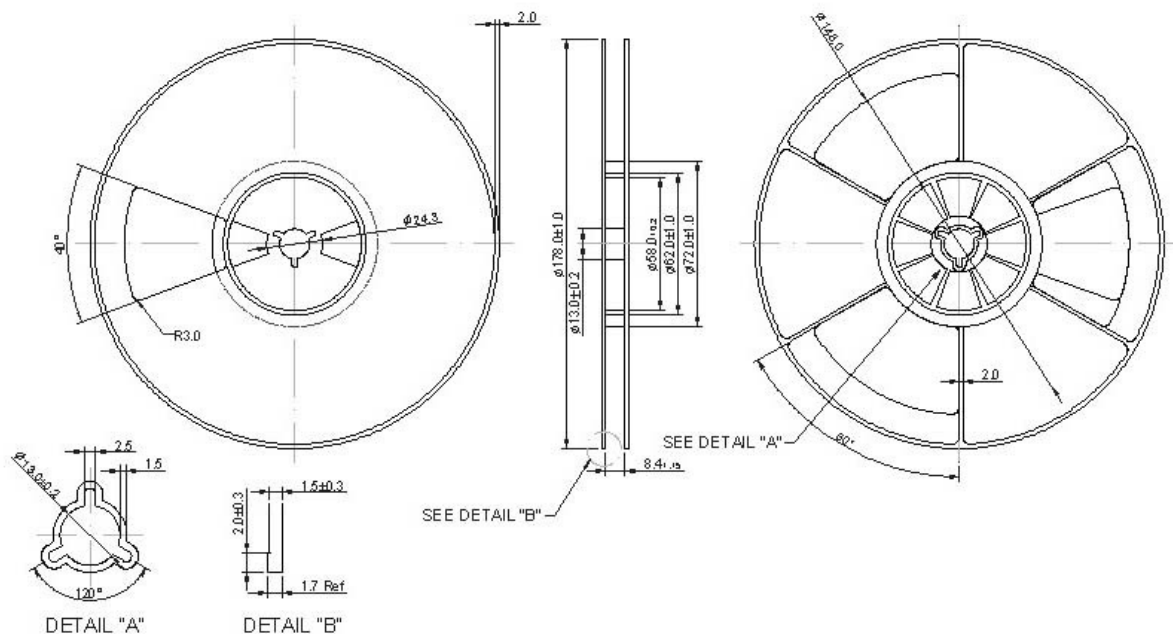
Span 100 MHz



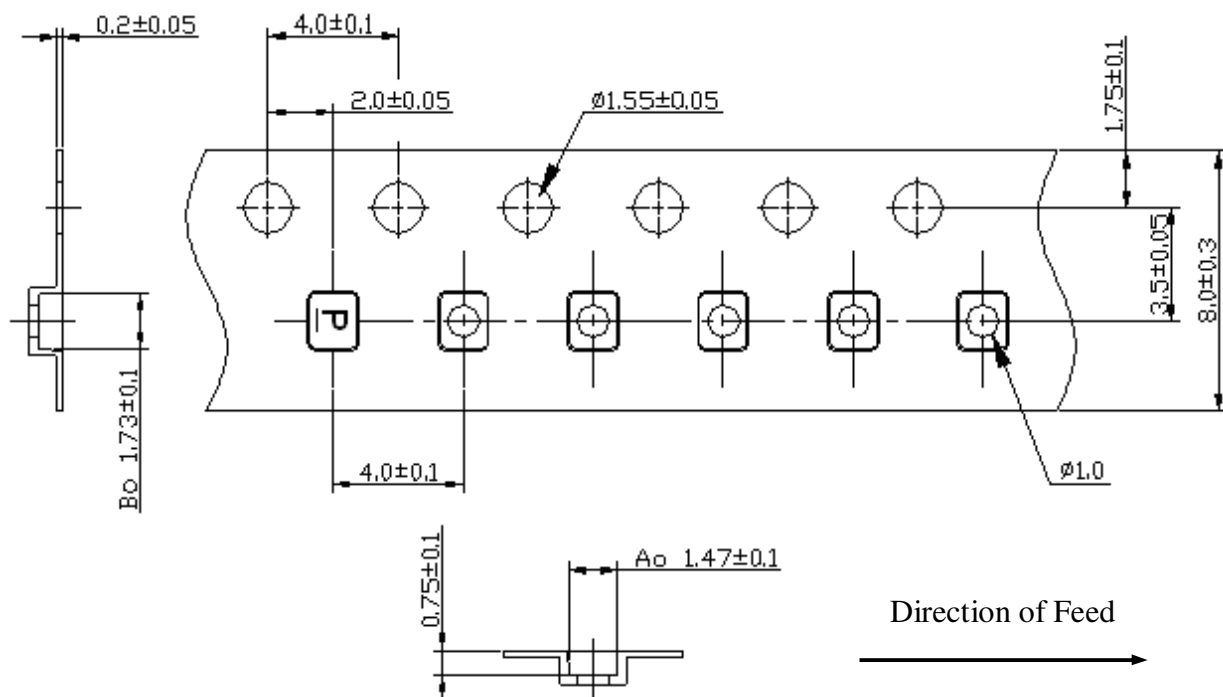
G. PACKING:

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.

