



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 1583 MHz (BW 46.79MHz) SMD 1.4X1.1 mm

TST Parts No.: TA1661A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Bob Chau *Bob Chau*

Date: _____ 01/11/2016

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 1583MHz

MODEL NO.:TA1661A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

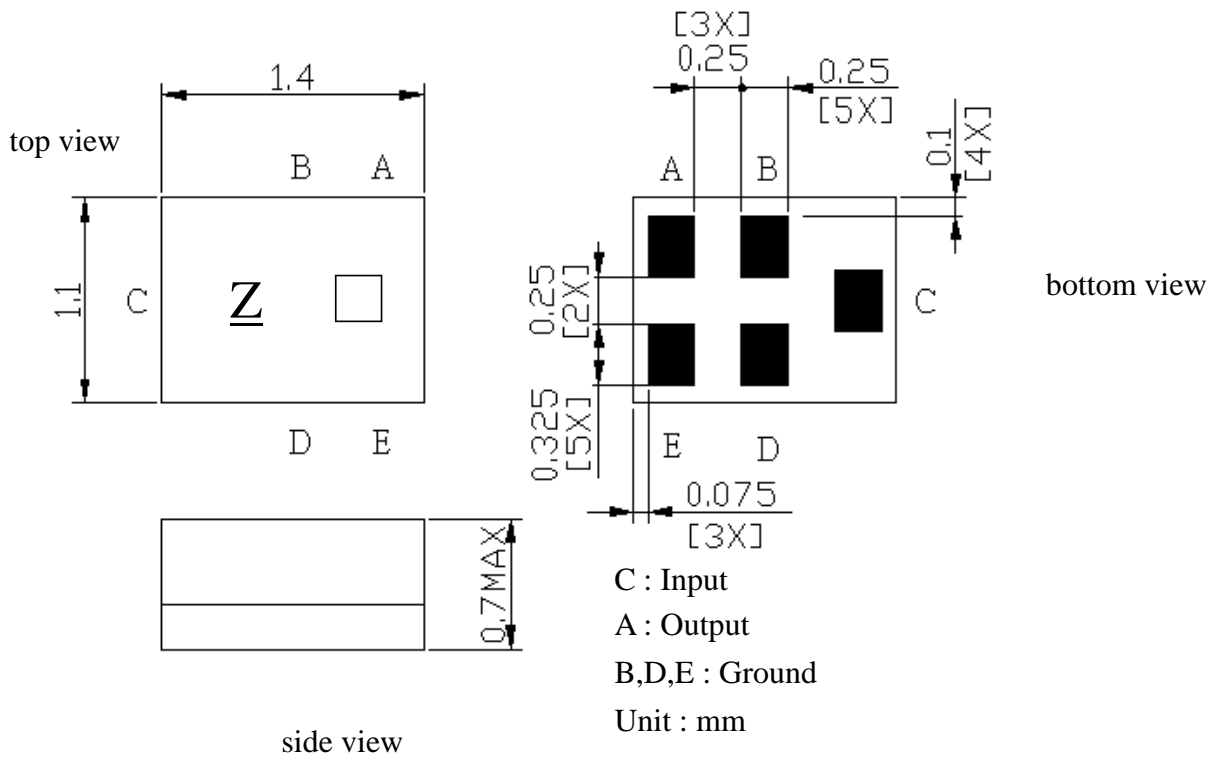
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	25±2°C	Type.	-40 ~ +85°C
Center Frequency Fc	MHz	-	1583	-
Insertion Loss (1559.1~1563.1 MHz) IL	dB	1.9max	1.8	2.1max
Insertion Loss (1573.42~1577.42 MHz) IL	dB	1.5max	1.4	1.6max
Insertion Loss (1597.55~1605.89 MHz) IL	dB	1.8max	1.7	2.1max
VSWR (1559.1~1563.1 MHz)		1.5max	1.4	1.8max
VSWR (1573.42~1577.42 MHz)		1.7max	1.6	2.0max
VSWR (1597.55~1605.89 MHz)		1.7max	1.6	1.9max
Amplitude ripple				
(1559.1~1563.1 MHz)	dB	0.6max	0.5	0.8max
(1573.42~1577.42 MHz)	dB	0.3max	0.2	0.5max
(1597.55~1605.89 MHz)	dB	0.5max	0.3	0.6max
Attenuation				
100 ~ 824 MHz	dB	44min	46	40min
824 ~ 925 MHz	dB	44min	46	40min
1427 ~ 1463 MHz	dB	43min	45	40min
1710 ~ 1785 MHz	dB	38min	40	36min
1850 ~ 1980 MHz	dB	38min	40	36min
2400 ~ 2570 MHz	dB	38min	40	36min
2570 ~ 3000 MHz	dB	35min	40	33min
Package size	mm	1411		

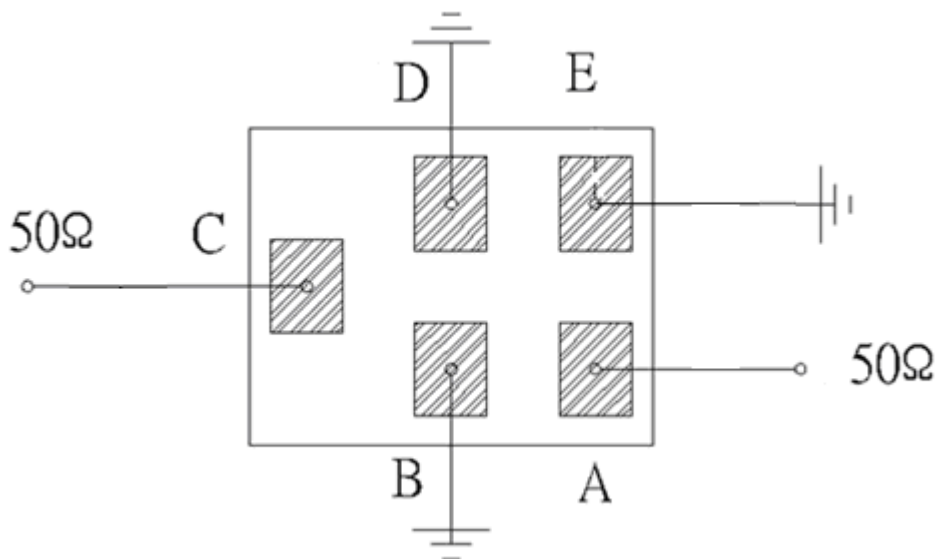
C.OUTLINE DRAWING:



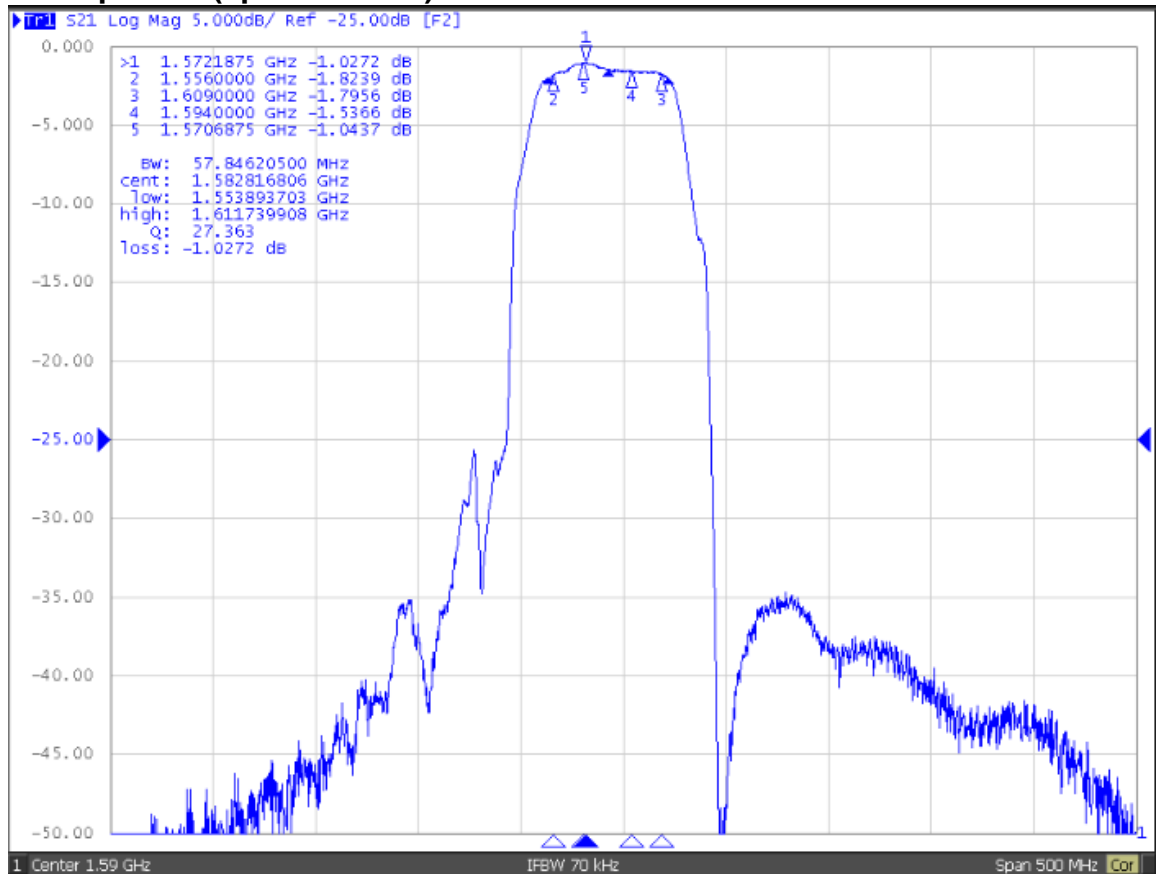
□ : Year/Month Code (Follow the table)

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>

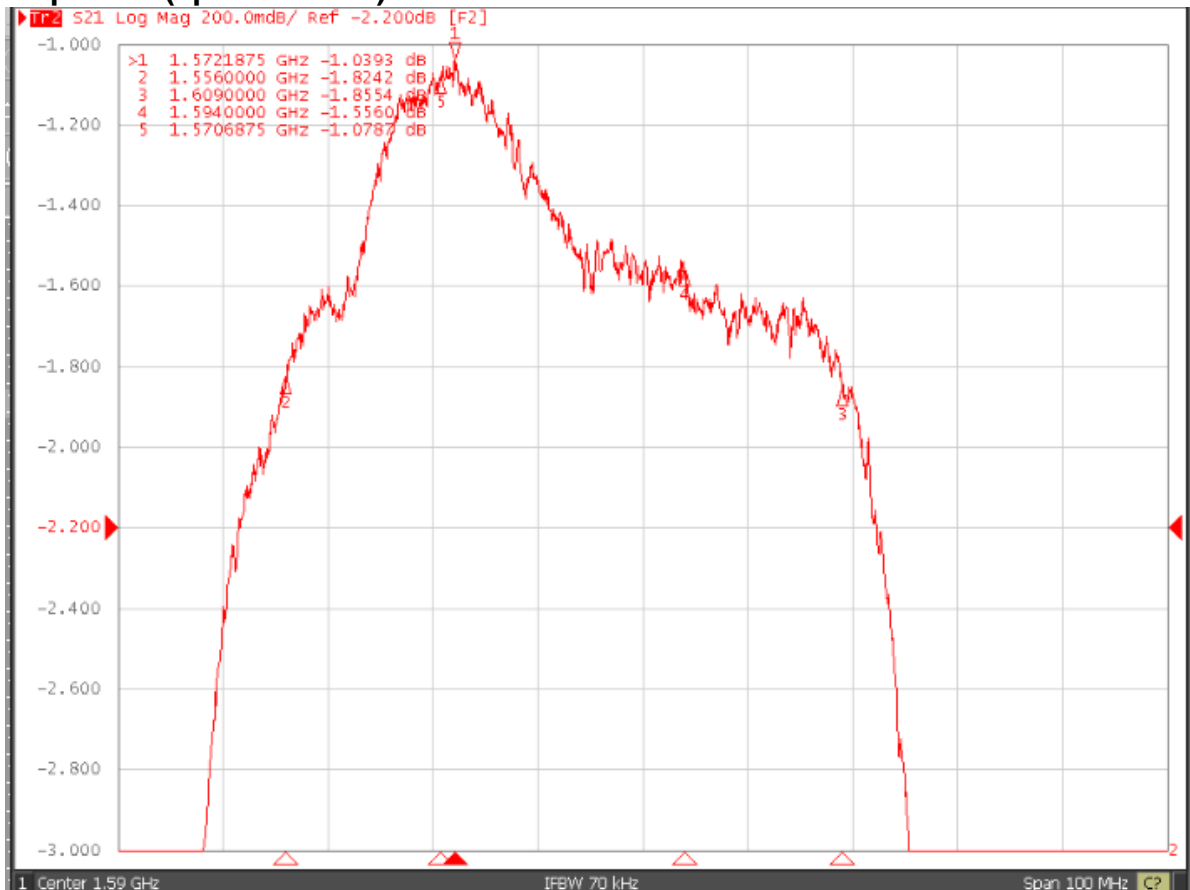
D. MEASUREMENT CIRCUIT:



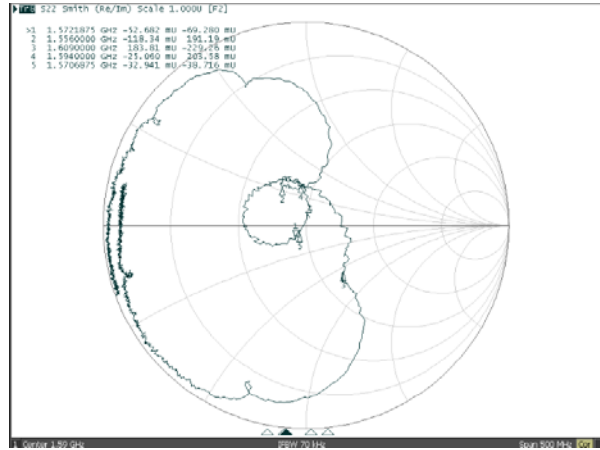
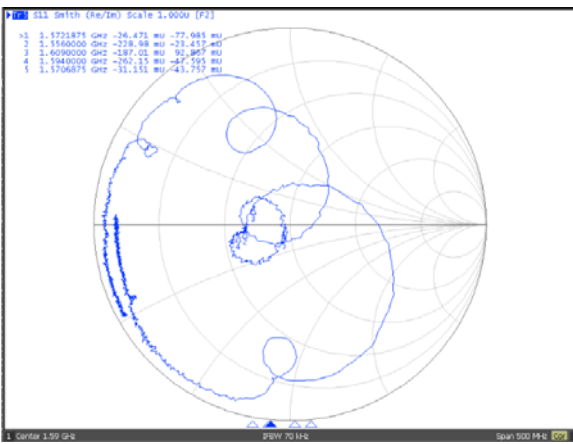
E. Frequency Characteristics :
S21 response: (span 500MHz)



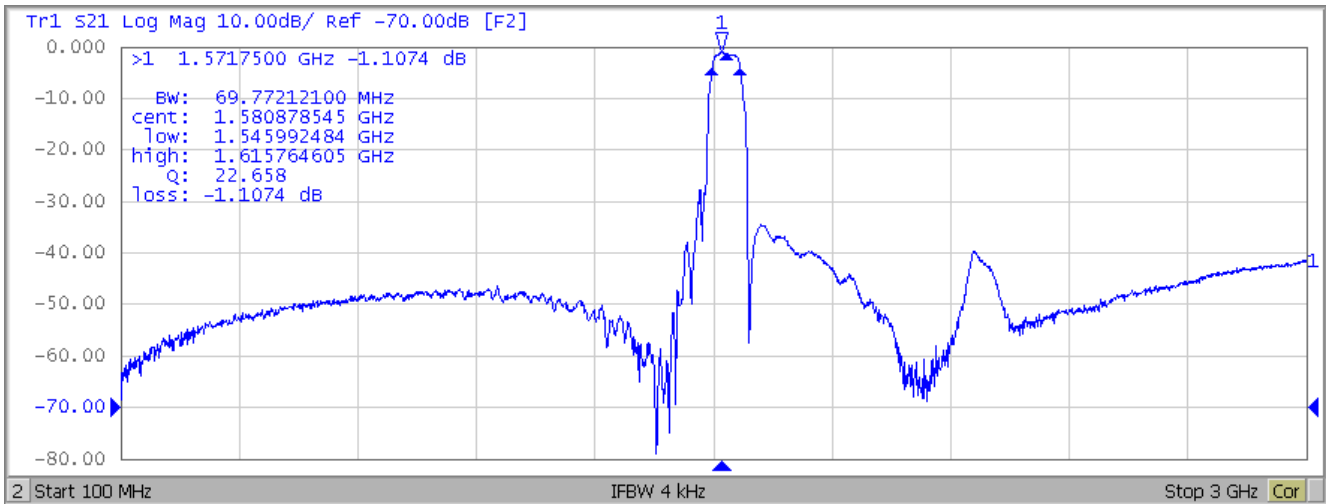
S21 response: (span 100MHz)



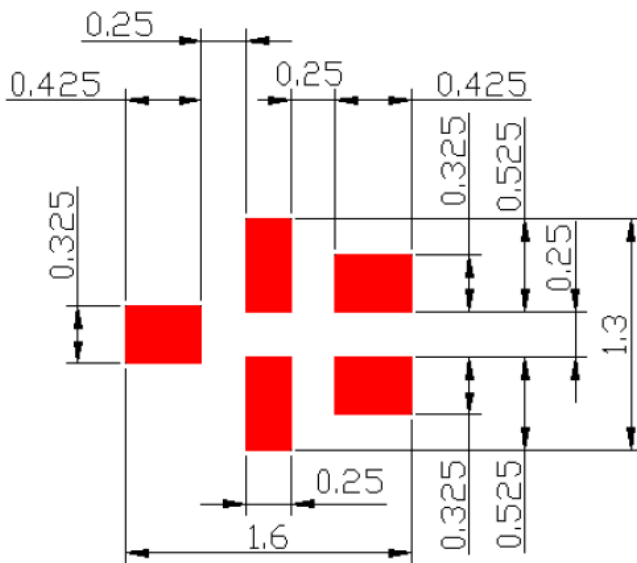
S11/S22 response :



S21 response: (span 3GHz)



F. PCB Footprint:

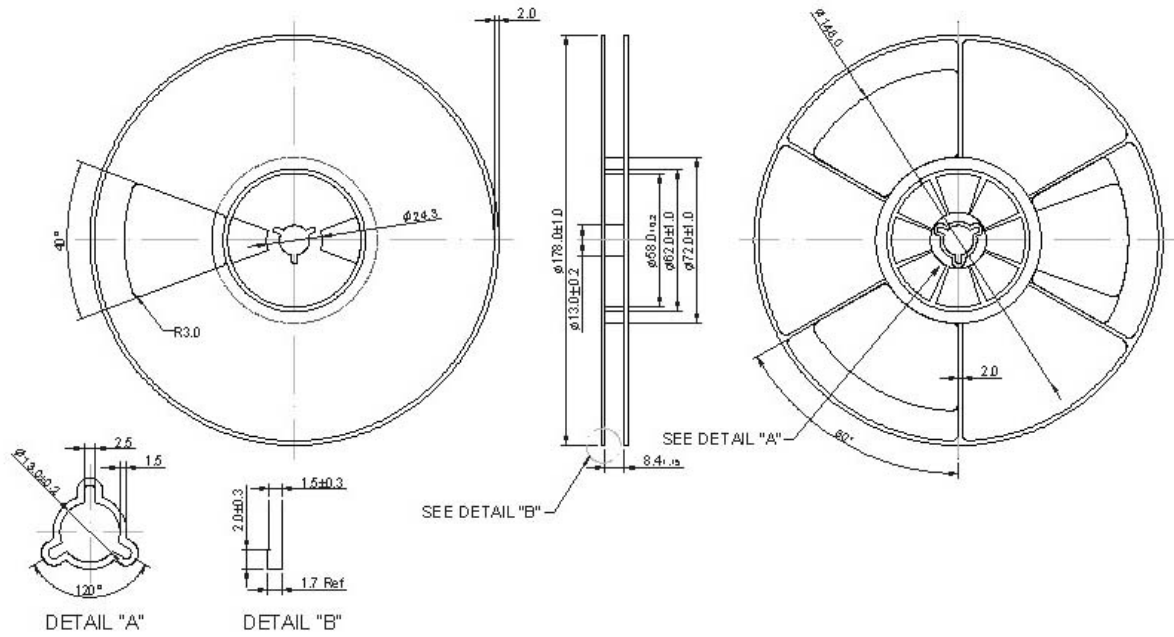


: Land Pattern

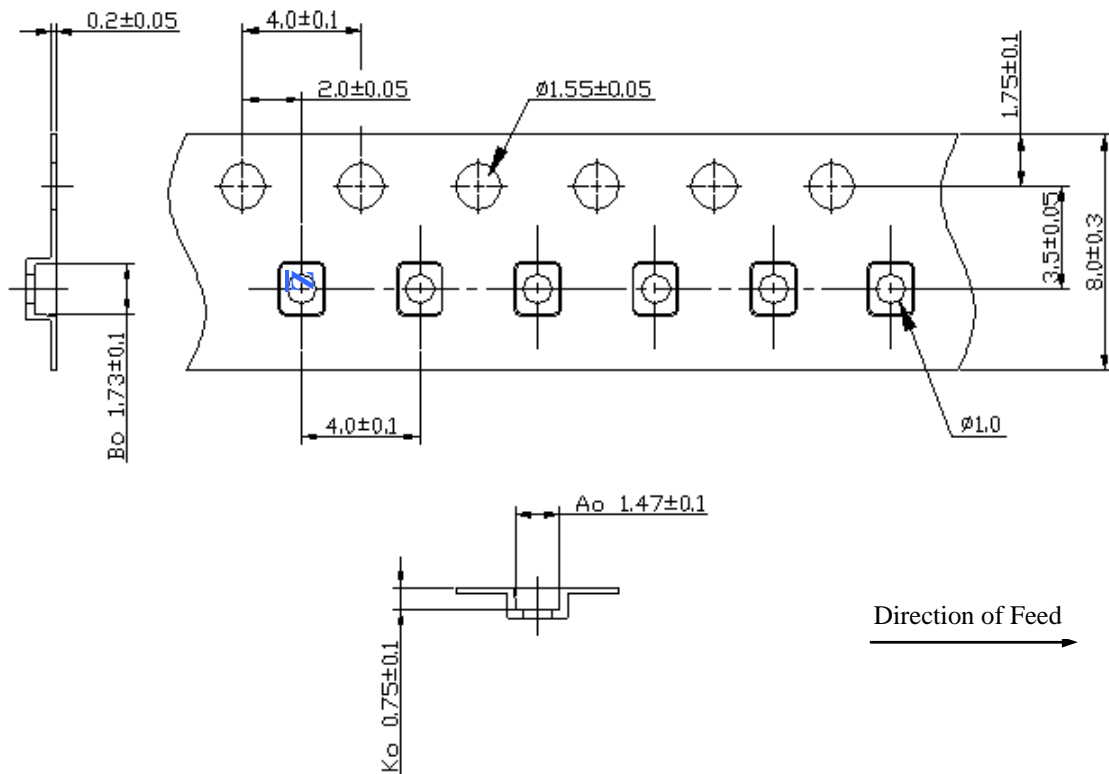
G. PACKING:

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.

