



TAI-SAW TECHNOLOGY CO., LTD.

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

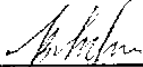
Product Description: SAW Filter 1902 MHz 34.9MHz BW SMD 1.4X1.1 mm

TST Part No.: TA1121A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Bob Chau 

Date: _____ 03, 25, 2013

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 1902MHz

MODEL NO.:TA1121A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -30°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

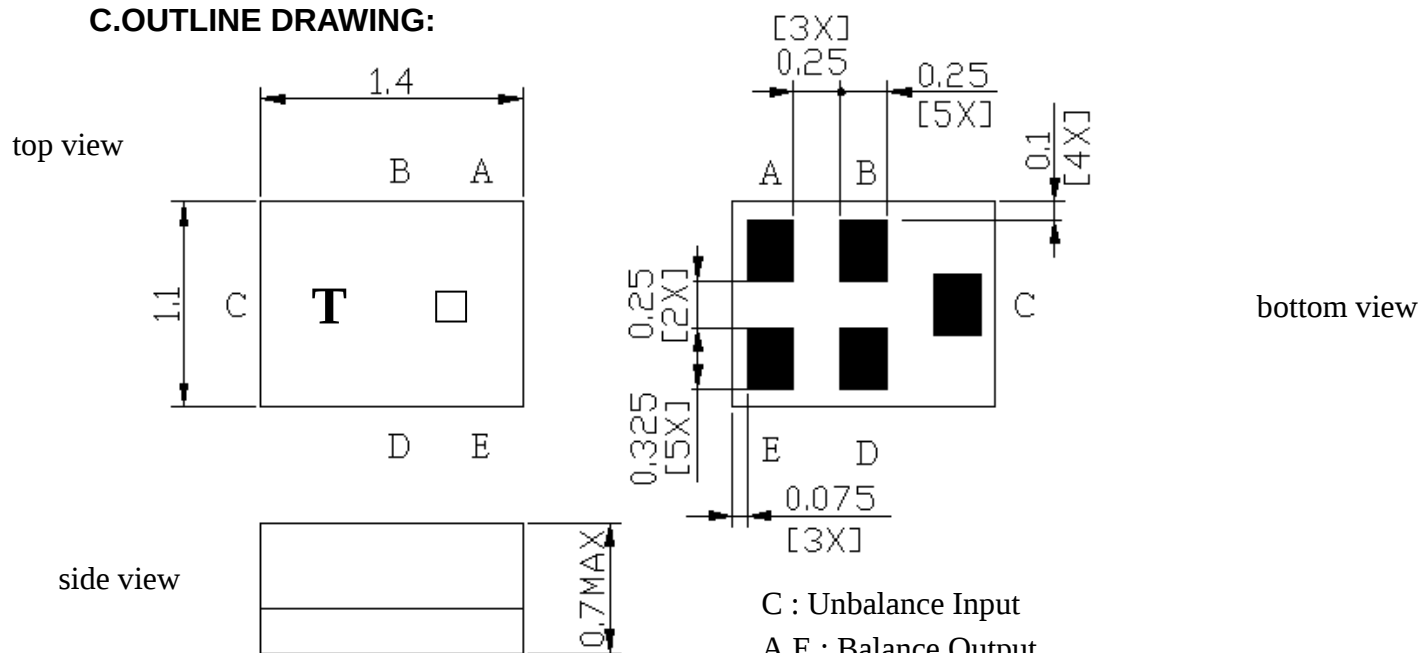
B. ELECTRICAL CHARACTERISTICS:

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

Terminating load impedance (differential) : $Z_L = 200 \Omega // 22nH$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency	Fc	MHz	-	1902	-
Insertion Loss (1884.55~1919.45MHz)	IL	dB	-	1.8	2.4
Amplitude ripple (1884.55~1919.45 MHz)	dB	-	0.5	1	-
Output amplitude balance (S ₃₁ /S ₂₁) (1884.55~1919.45 MHz)	dB	-3	+1.9	3	-
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$) (1884.55~1919.45 MHz)	deg	-12	+6	12	-
VSWR (1884.55~1919.45 MHz)		-	2	2.5	-
Attenuation					
1349~1455 MHz	dB	35	40	-	-
1614~1687 MHz	dB	35	46	-	-
1731~1801 MHz	dB	34	36	-	-
1986~2056 MHz	dB	18	22	-	-
2037~2039 MHz	dB	25	33	-	-
2113~2186 MHz	dB	35	42	-	-
2386~2451 MHz	dB	40	48	-	-
3000~3840 MHz	dB	40	51	-	-
4941~5760 MHz	dB	35	48	-	-

C.OUTLINE DRAWING:



C : Unbalance Input

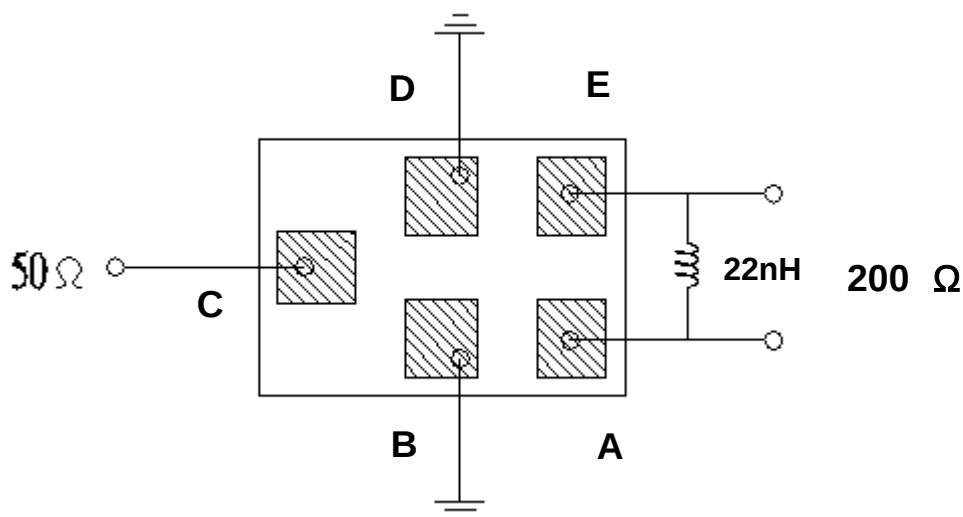
A,E : Balance Output

B,D : Ground

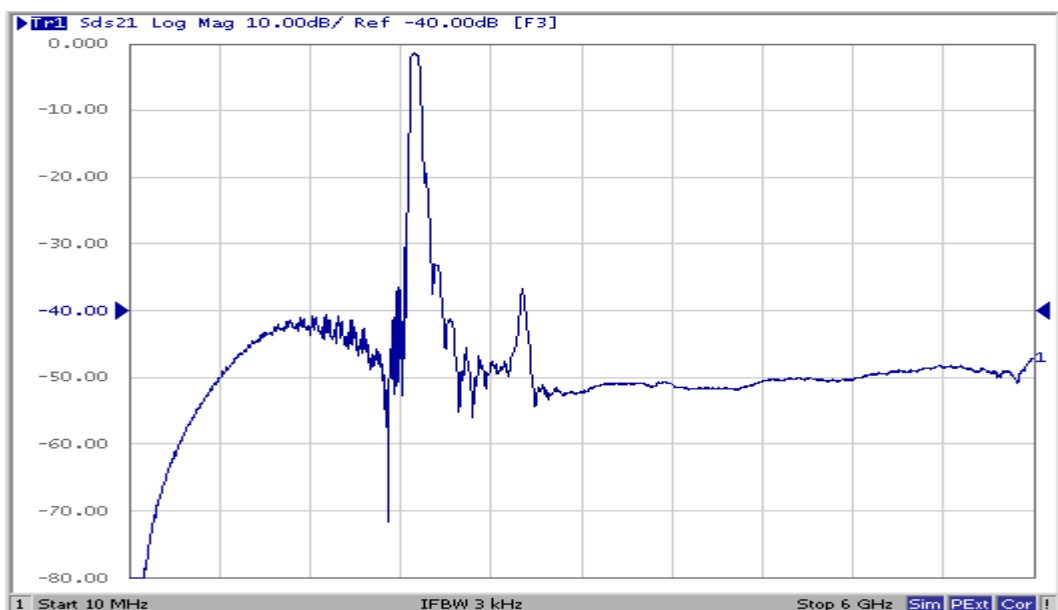
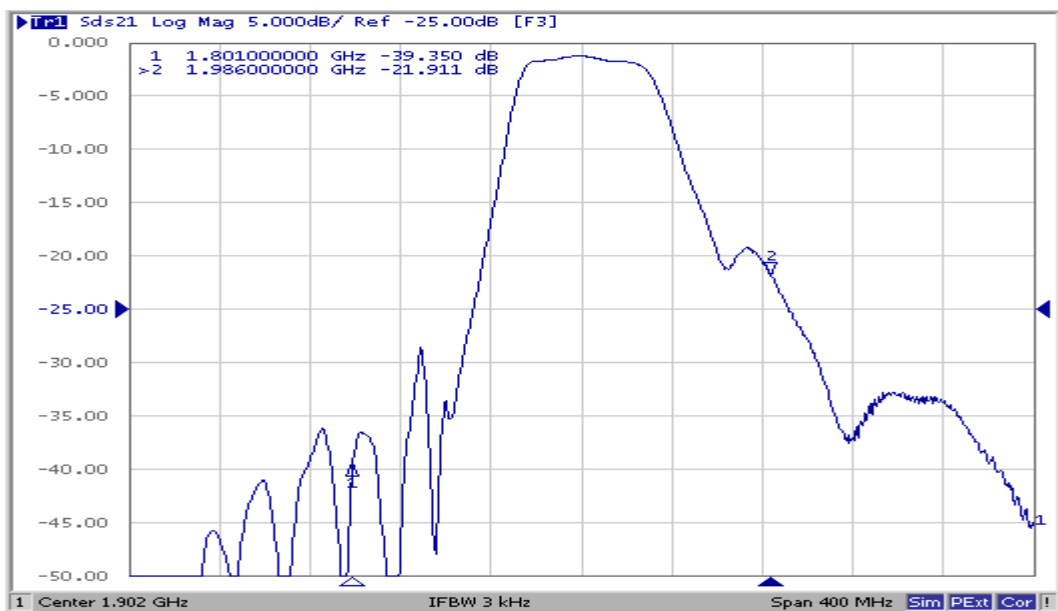
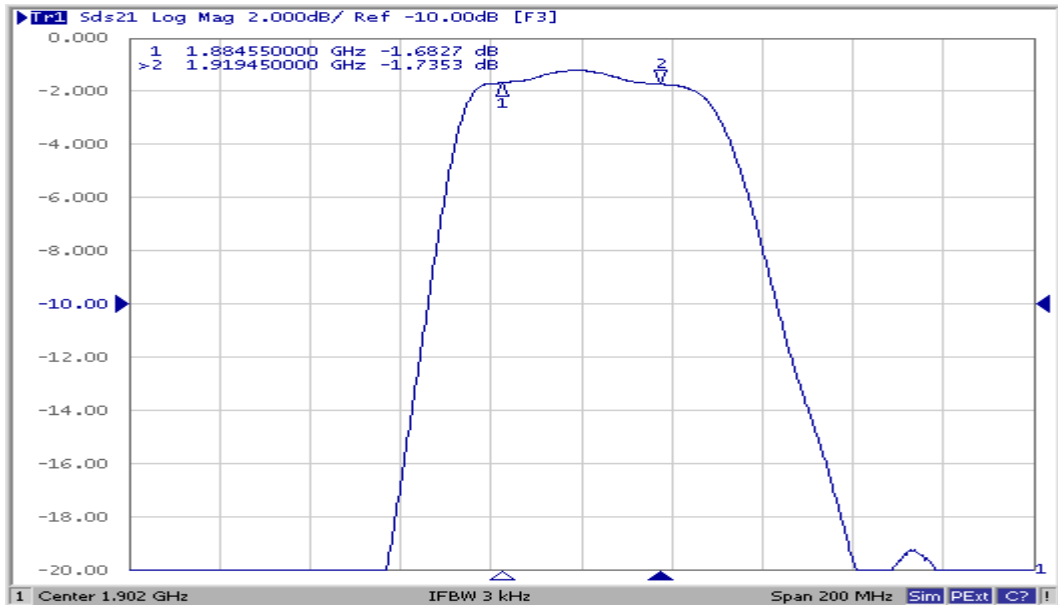
□ : Year/Month Code (Follow the table)

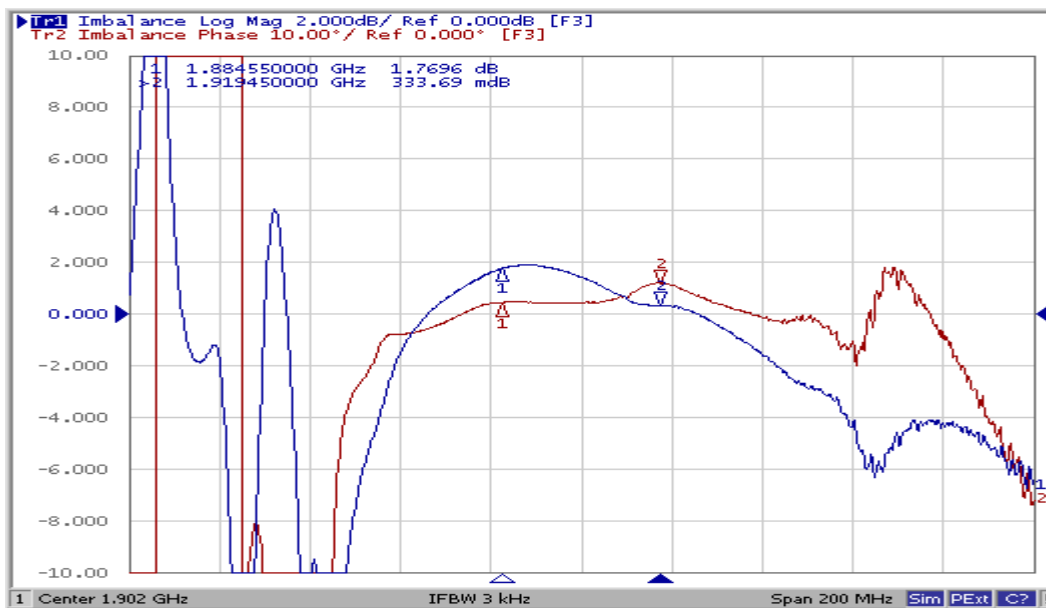
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R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

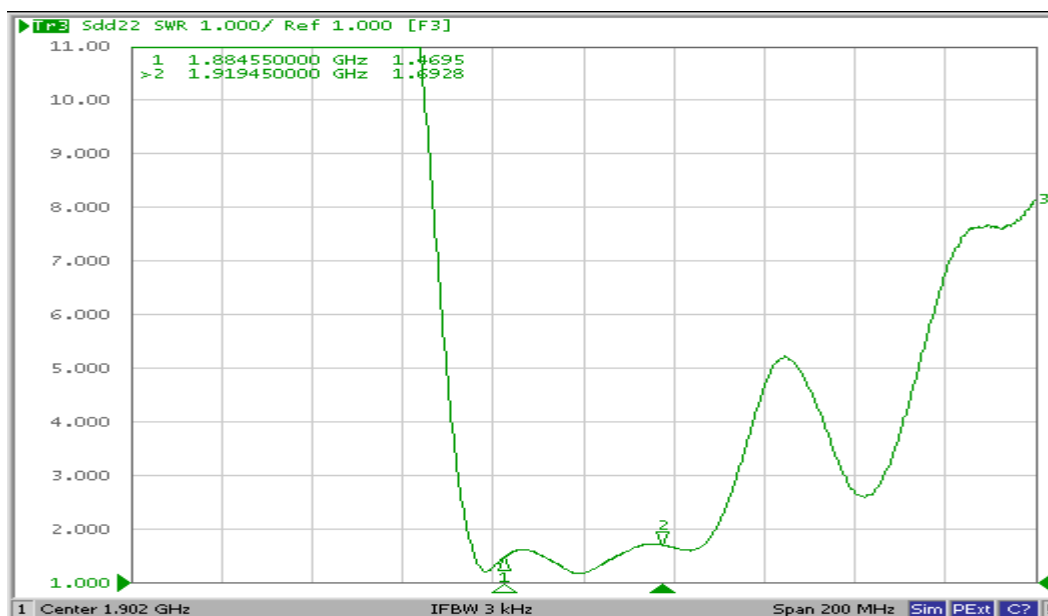
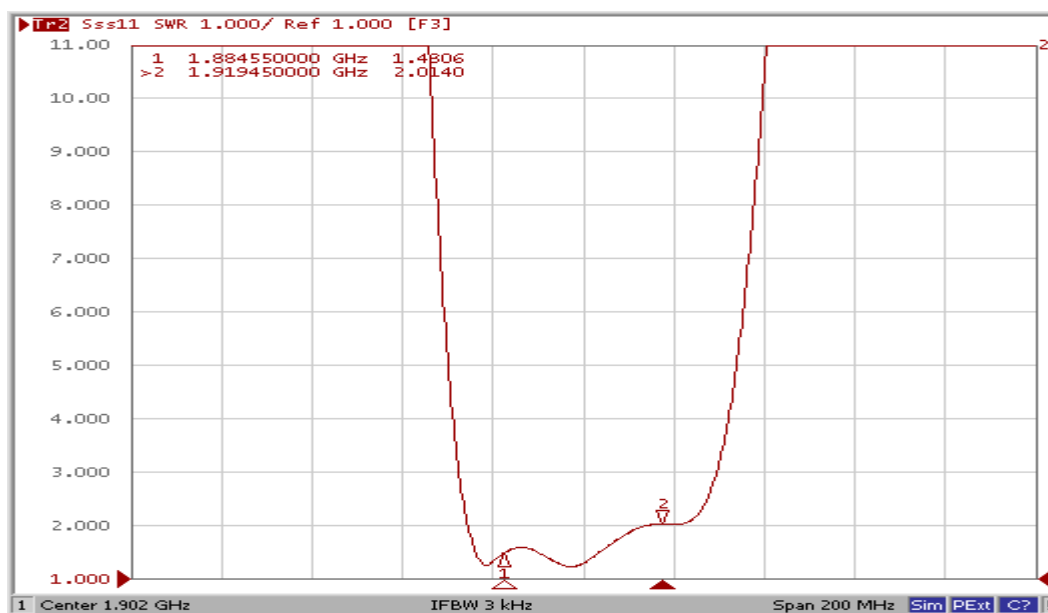


E. Frequency Characteristics :





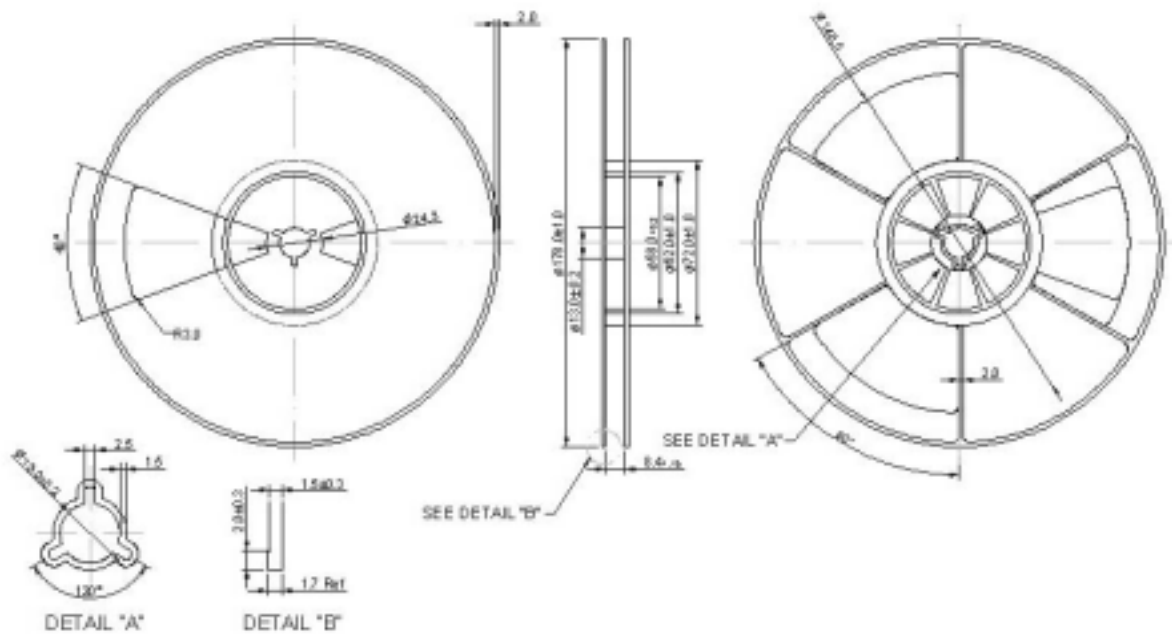
Reflection Functions :



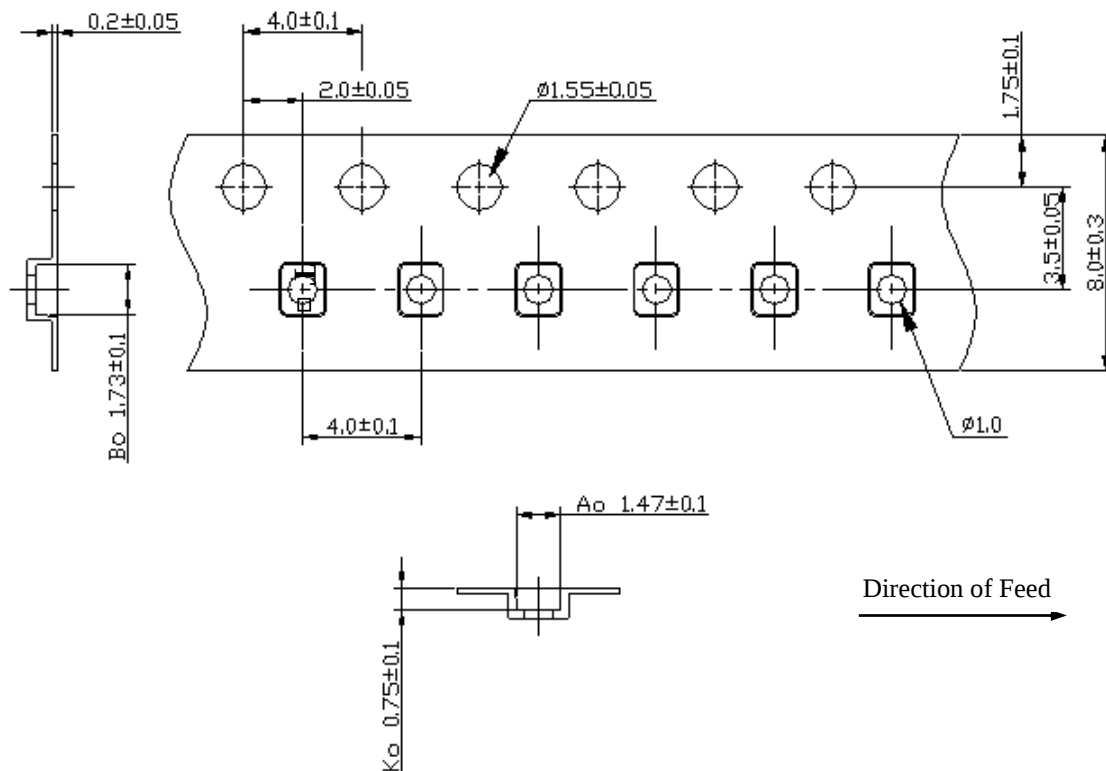
F. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=3000)



2. TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180 for 60~90 seconds.
2. Ascending time to preheating temperature 150 shall be 30 seconds min.
3. Heating shall be fixed at 220 for 50~80 seconds and at 245~260 peak (min. 10sec).
4. Time : 2 times.

