



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Filter 1842.5MHz BW35MHz SMD1.4X1.1mm

TST Parts No.: TA1145A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu 

Approved by: _____ Bob Chau 

Date: _____ 03, 15, 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 1842.5 MHz BW35MHz

MODEL NO.: TA1145A

Rev.2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -30°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

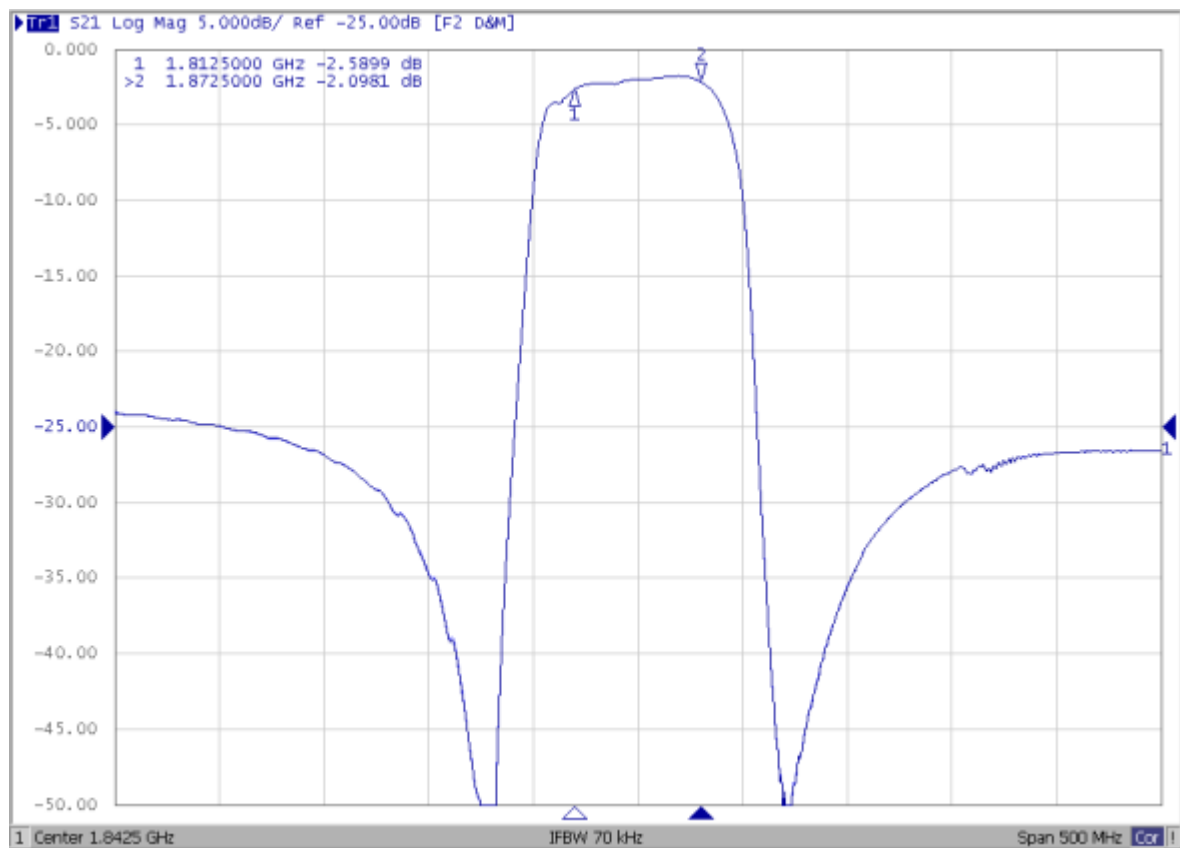
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

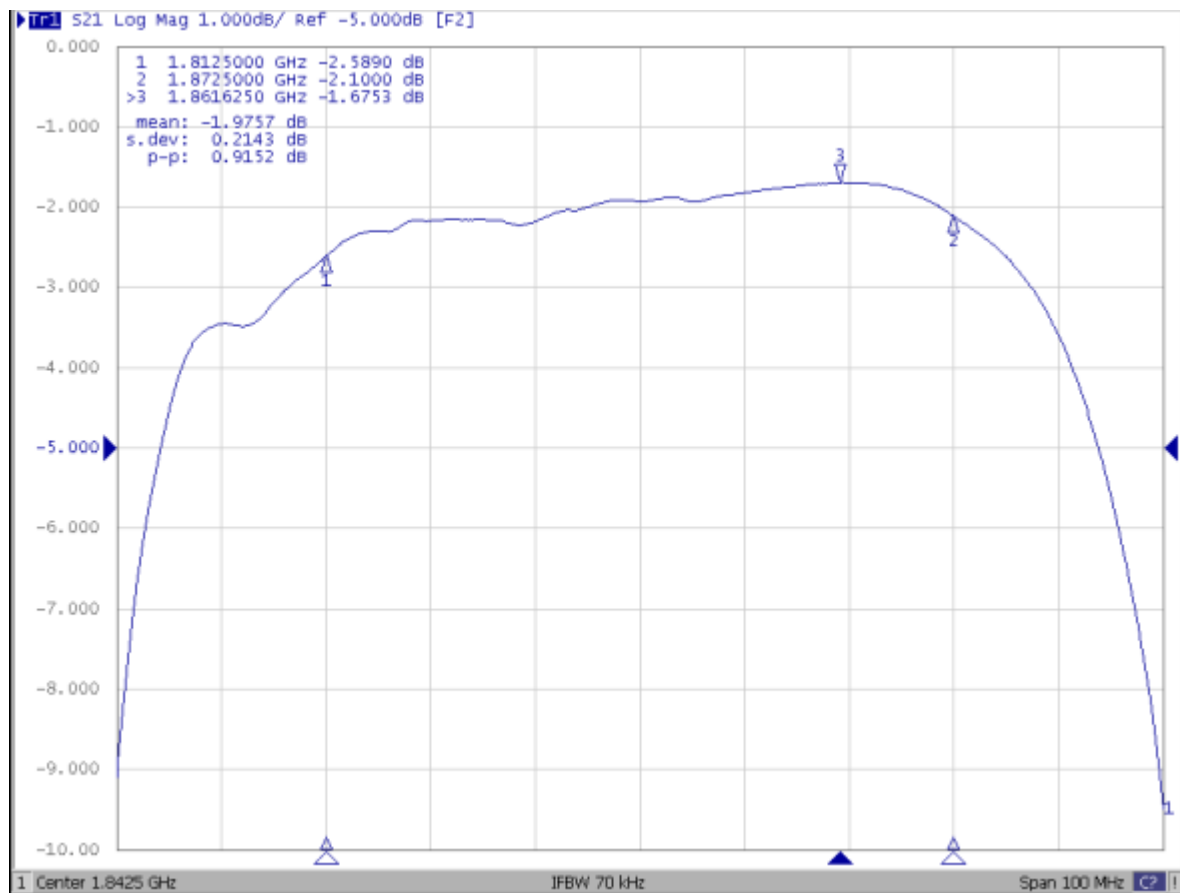
Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1842.5	-	-
Insertion Loss within 1825 ~ 1860MHz IL	dB	-	2.5	3.2	-
Amplitude ripple (1825 ~ 1860MHz)	dB	-	1.0	1.8	-
VSWR (1825 ~ 1860MHz)	dB	-	2.0	2.3	-
Attenuation					
D.C ~ 1500 MHz	dB	20	24	-	-
1600 ~ 1710 MHz	dB	22	25	-	-
1710 ~ 1785 MHz	dB	15	28	-	-
1920 ~ 3120 MHz	dB	25	28	-	-
3120 ~ 4000 MHz	dB	25	30	-	-
Package size	mm	SMD 1.4x1.1			

C.FREQUENCY CHARACTERISTICS:

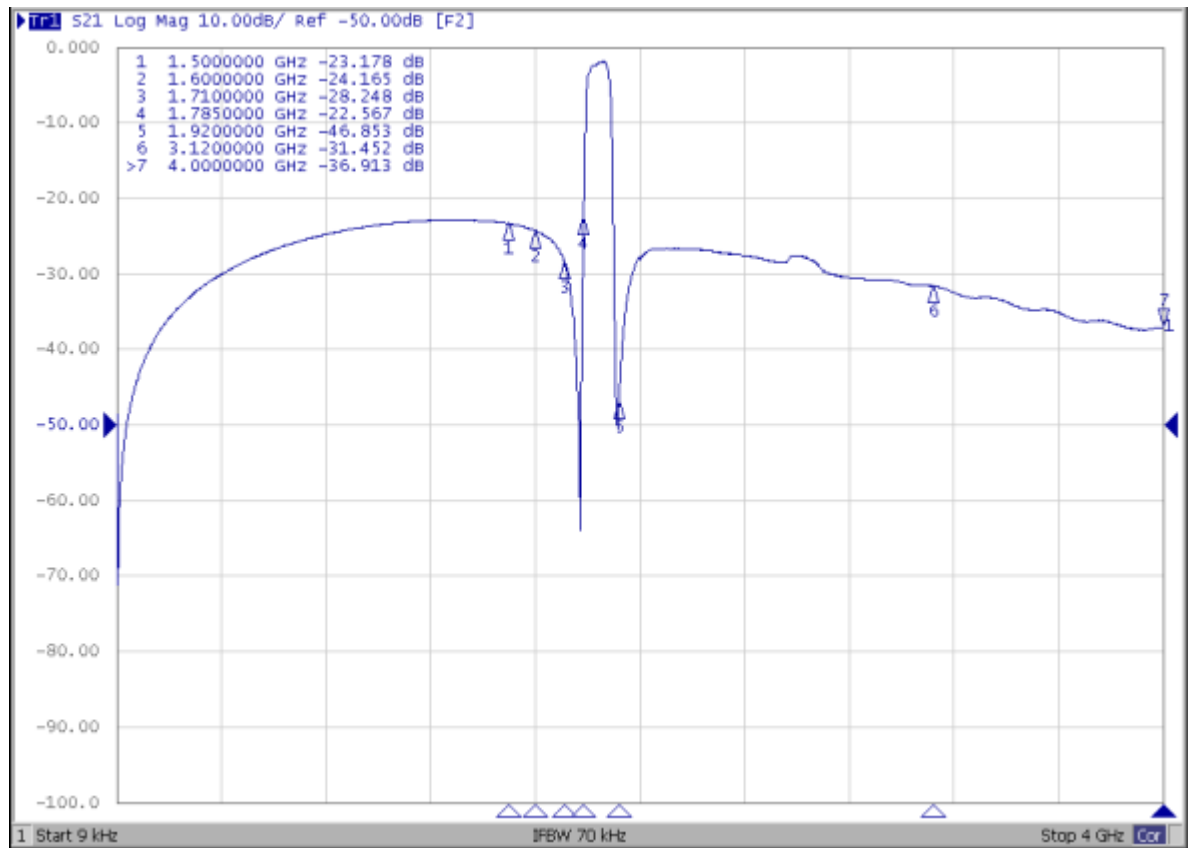
S21 response: (span 500MHz)



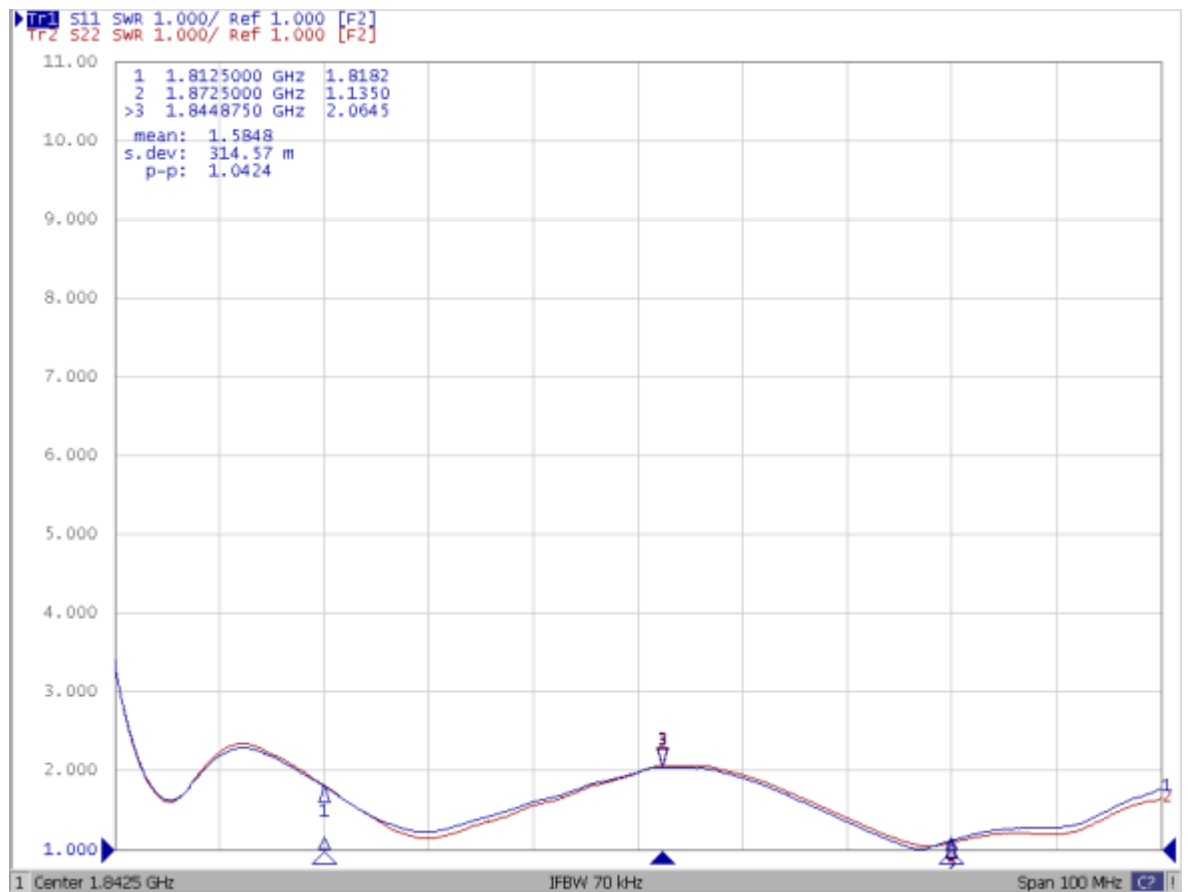
S21 response: (span 100MHz)



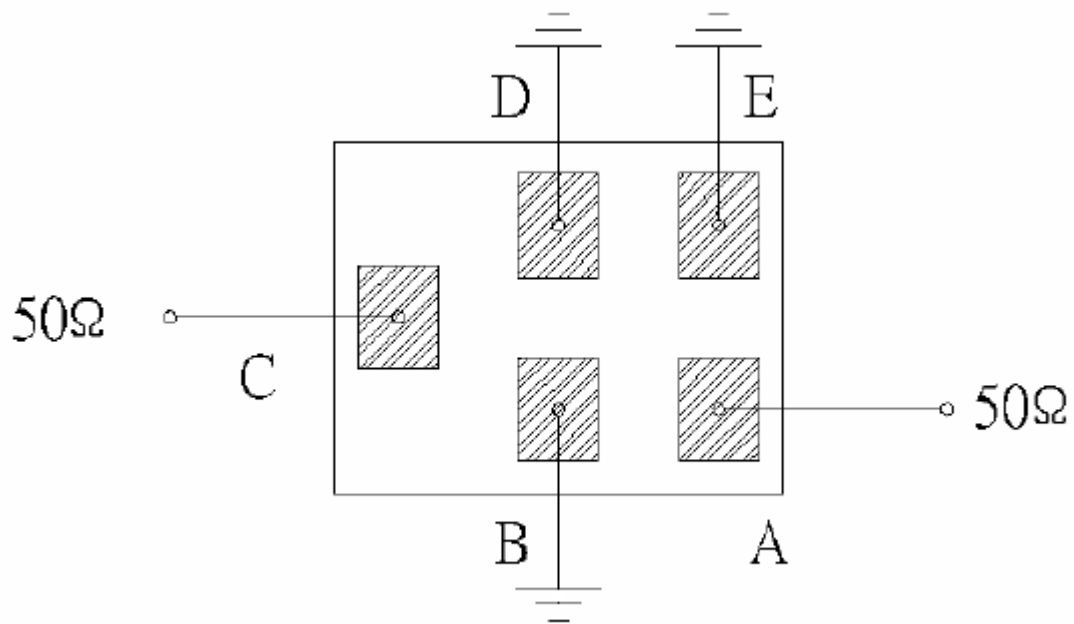
S21 response: (span 4GHz)



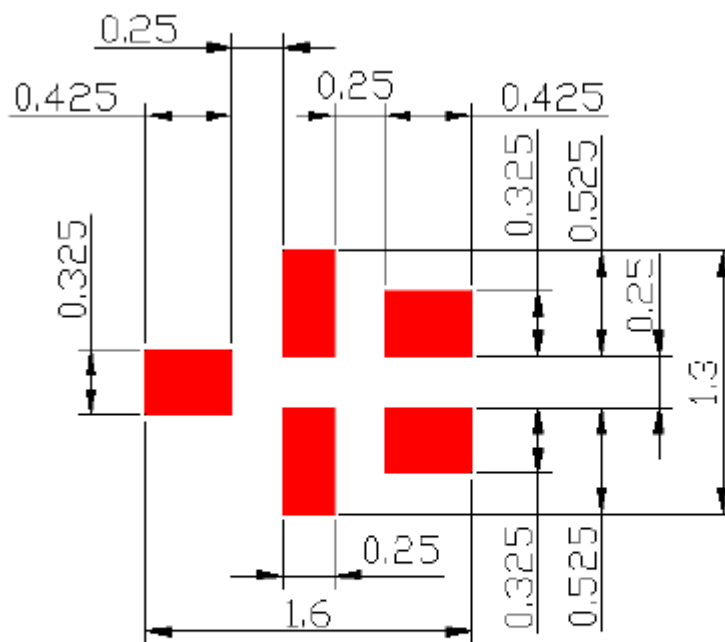
S11&S22 VSWR: (span 100MHz)



D. MEASUREMENT CIRCUIT:

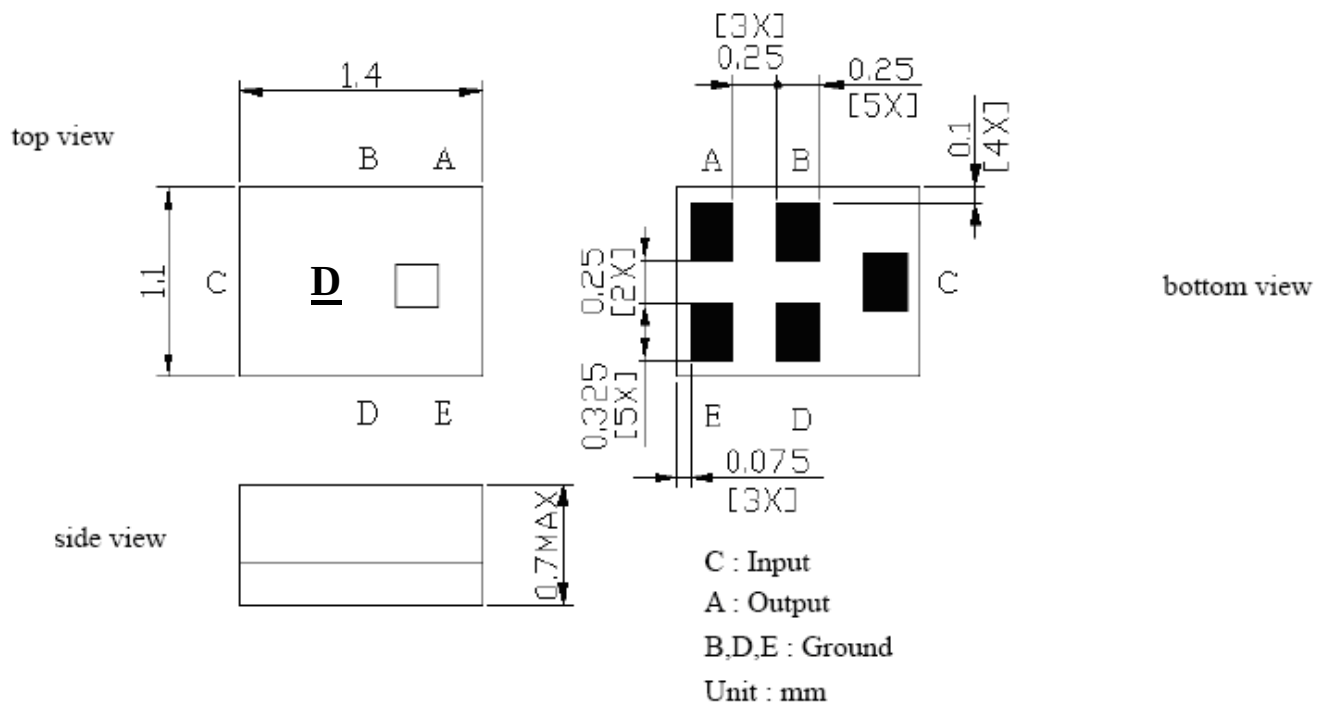


E. PCB FOOTPRINT:



: Land Pattern
Unit : mm

F.OUTLINE DRAWING:



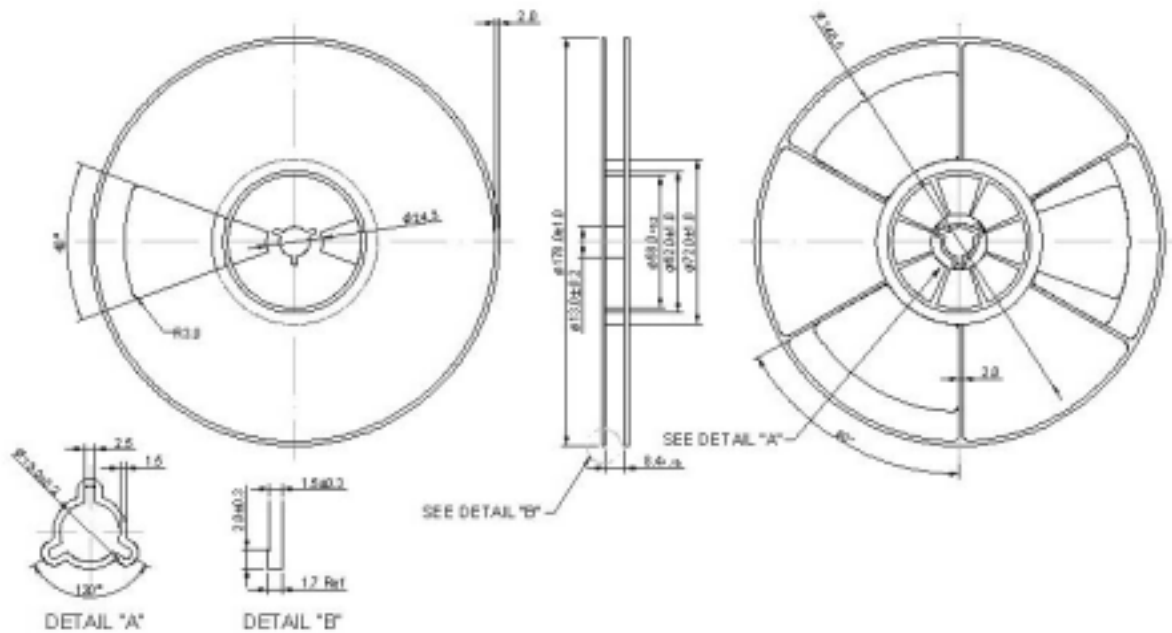
□ : Year/Month Code (Follow the table)

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>i</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>

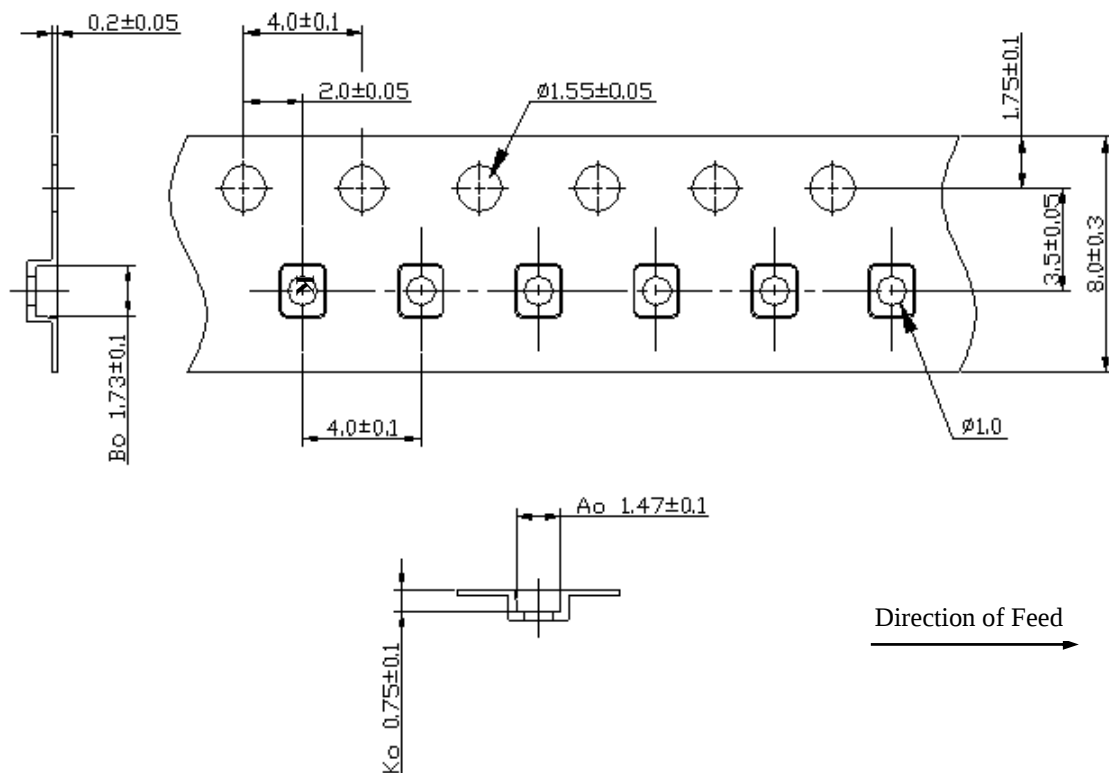
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=3000)



2.TAPE DIMENSION



H. 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.

