



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 1588.655 MHz SMD 1.4X1.1 mm (BW=34.47 MHz)

TST Part No.: TA1267E (This part is is compliant with AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ David Chang 

Approved by: _____ Bob Chau 

Date: _____ 2015/02/02

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 1588.655MHz

MODEL NO.:TA1267E

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

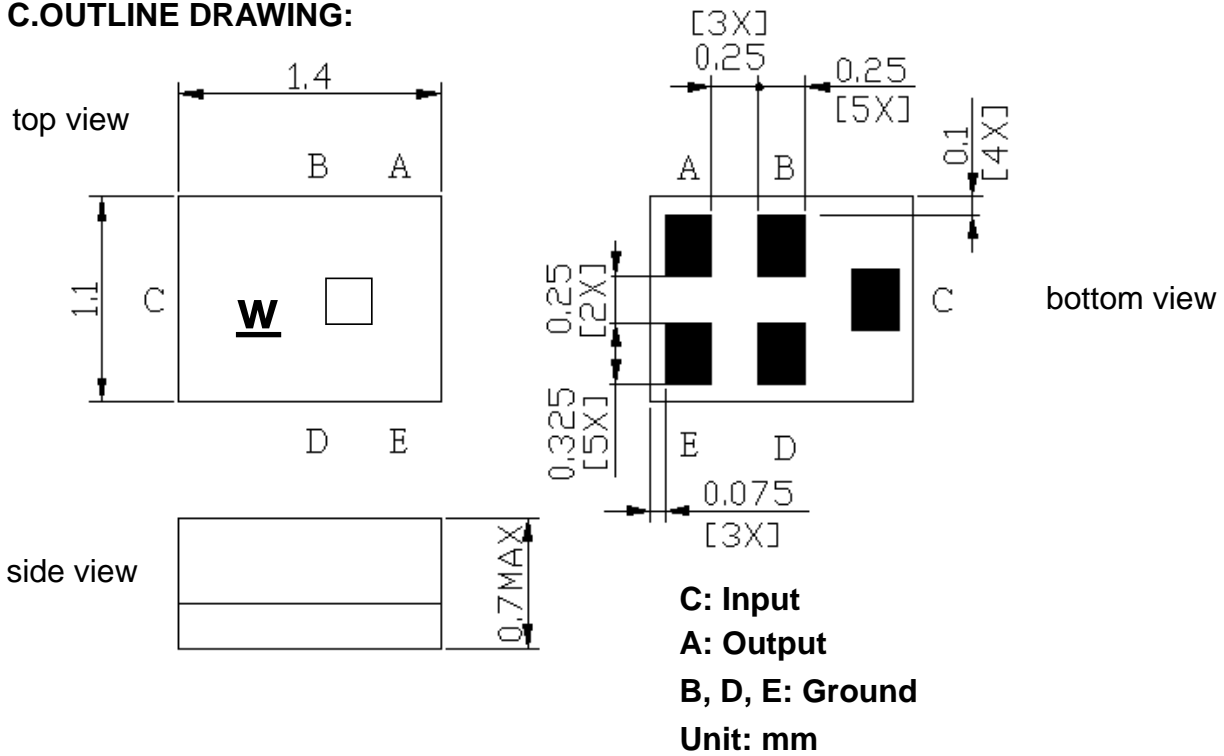
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

Item	Unit	Min.	Type.	Max.
Center Frequency	Fc MHz	-	1588.655	-
Insertion Loss (1573.42~1577.42 MHz)	IL dB	-	1.25	1.7
Insertion Loss (1571.42~1605.89 MHz)	IL dB	-	1.7	2.5
Amplitude ripple (1573.42~1577.42 MHz)	dB	-	0.25	0.8
Amplitude ripple (1571.42~1605.89 MHz)	dB	-	0.7	1.5
I/O VSWR (1573.42~1577.42 MHz)	-	-	1.2	2
I/O VSWR (1571.42~1605.89 MHz)	-	-	1.6	2
Attenuation (Reference level from 0 dB)				
D.C~824 MHz	dB	32	35	-
824~849 MHz	dB	32	35	-
849~880 MHz	dB	32	34.5	-
880~915 MHz	dB	32	34.5	-
915~1452 MHz	dB	30	34	-
1452~1525 MHz	dB	32	37	-
1710~1785 MHz	dB	32	36	-
1785~1850 MHz	dB	32	36	-
1850~6000 MHz	dB	25	36	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

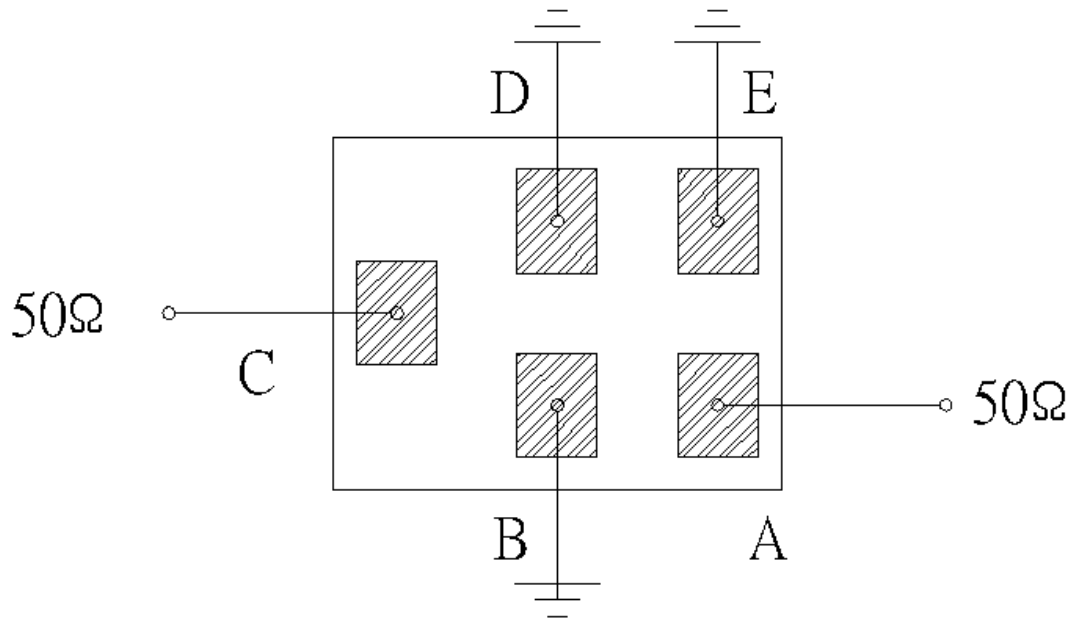
C.OUTLINE DRAWING:



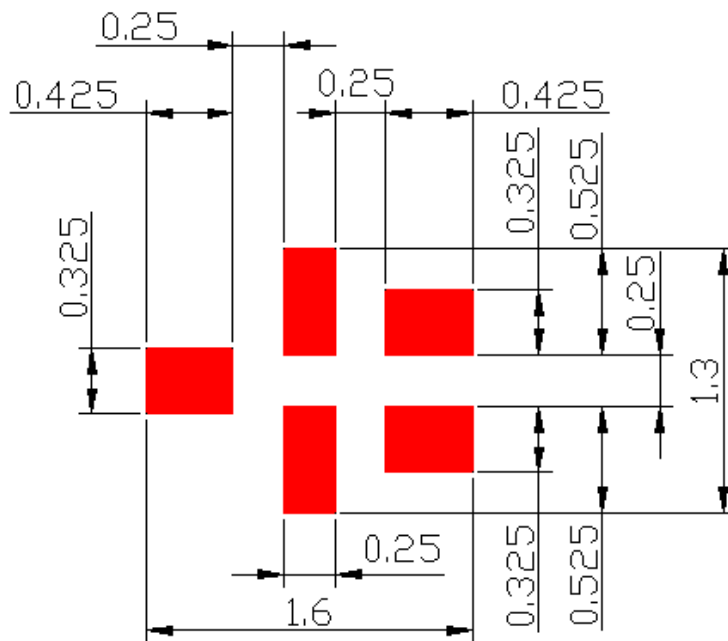
□ : Year/Month Code (Follow the table)


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:

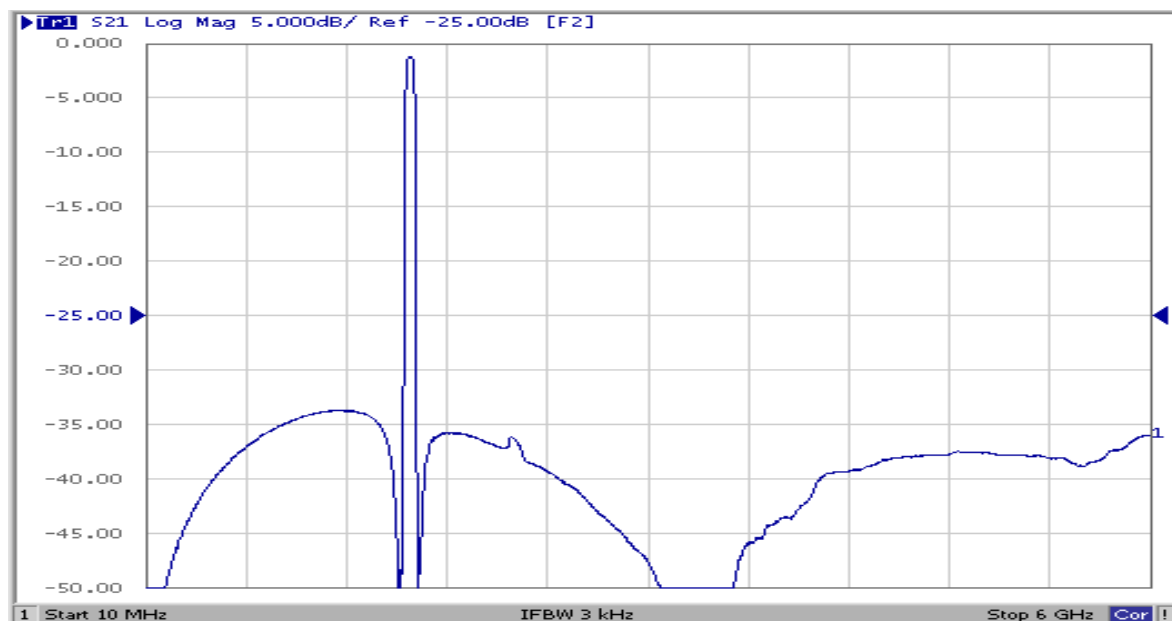
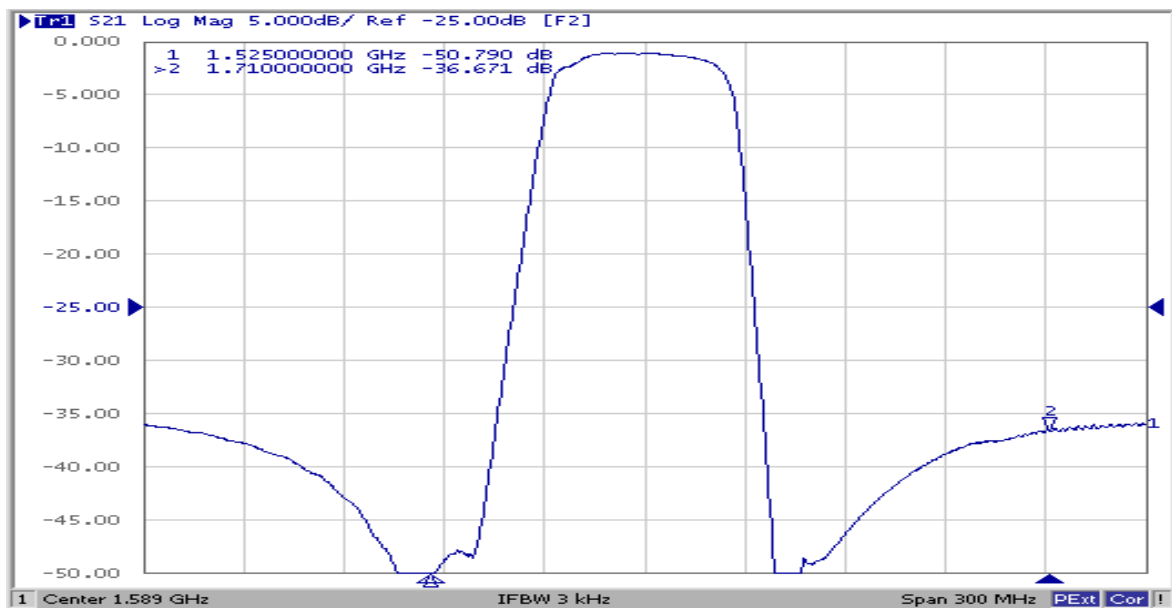
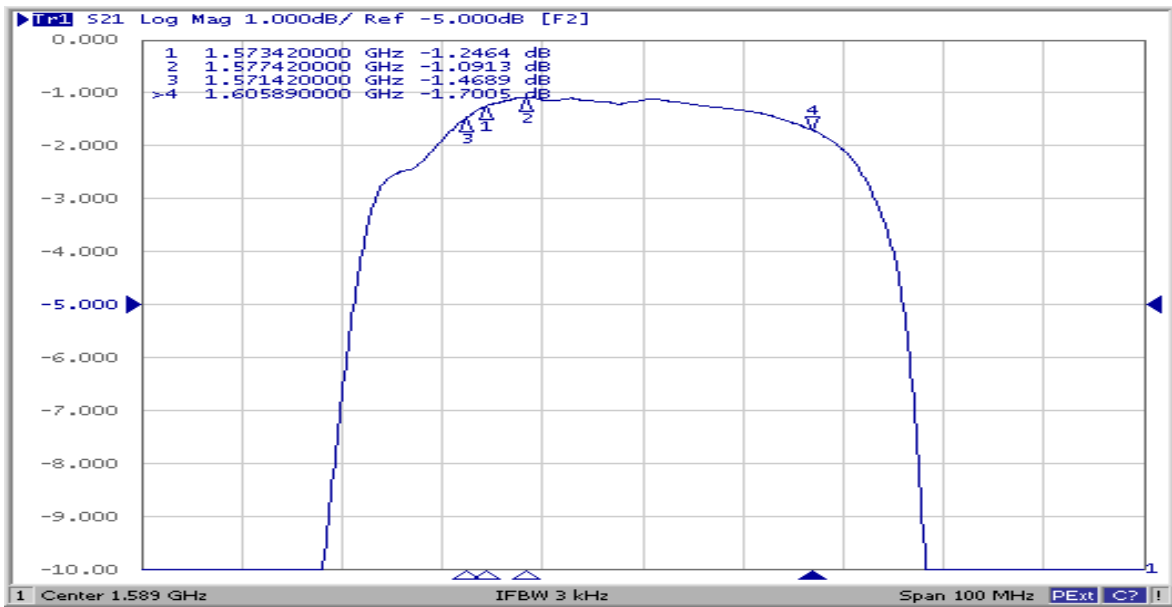


E. PCB Footprint:



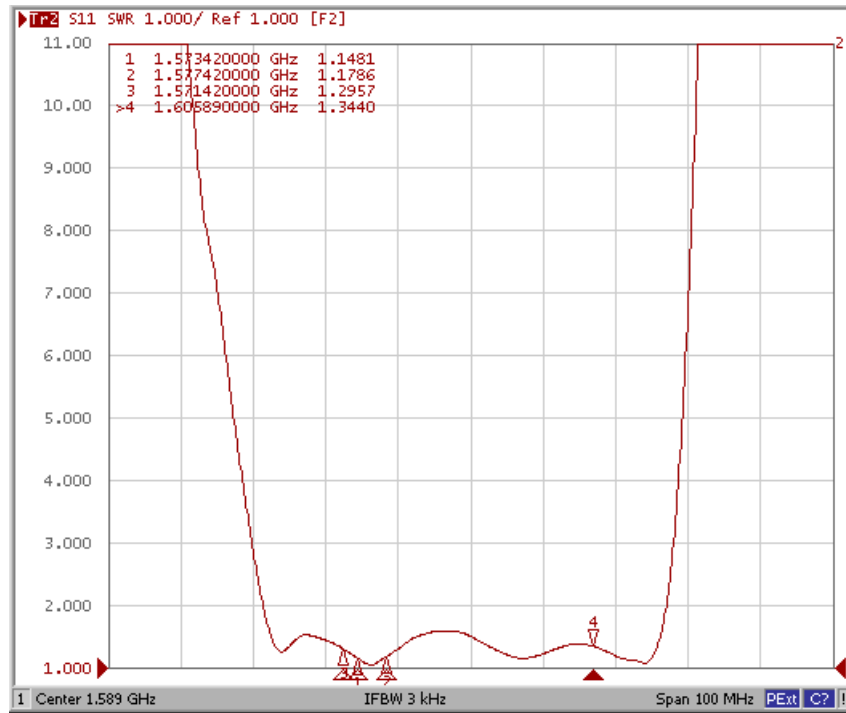
 : Land Pattern
Unit : mm

F. Frequency Characteristics:

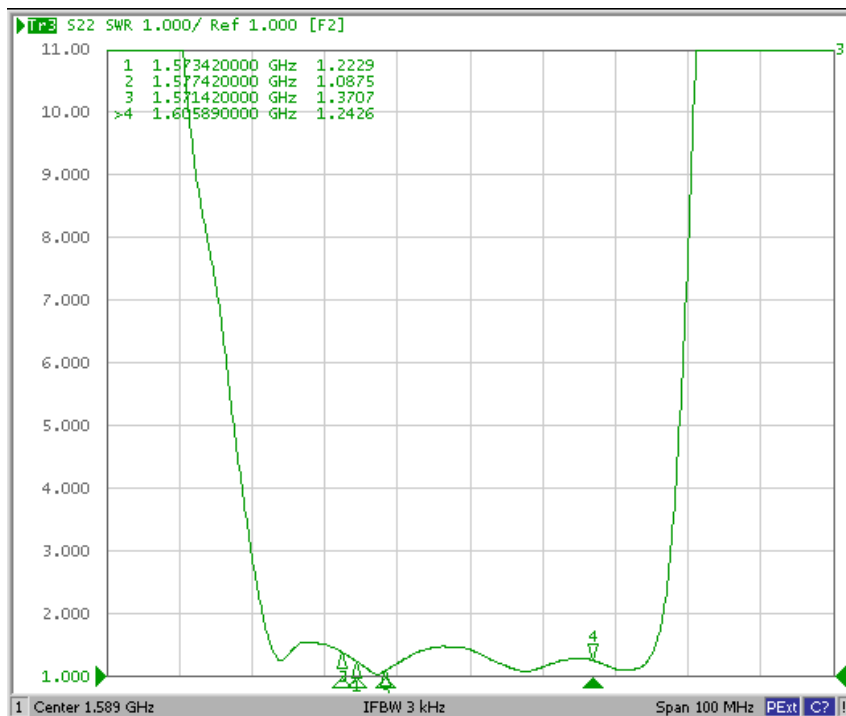


Reflection Functions:

S11



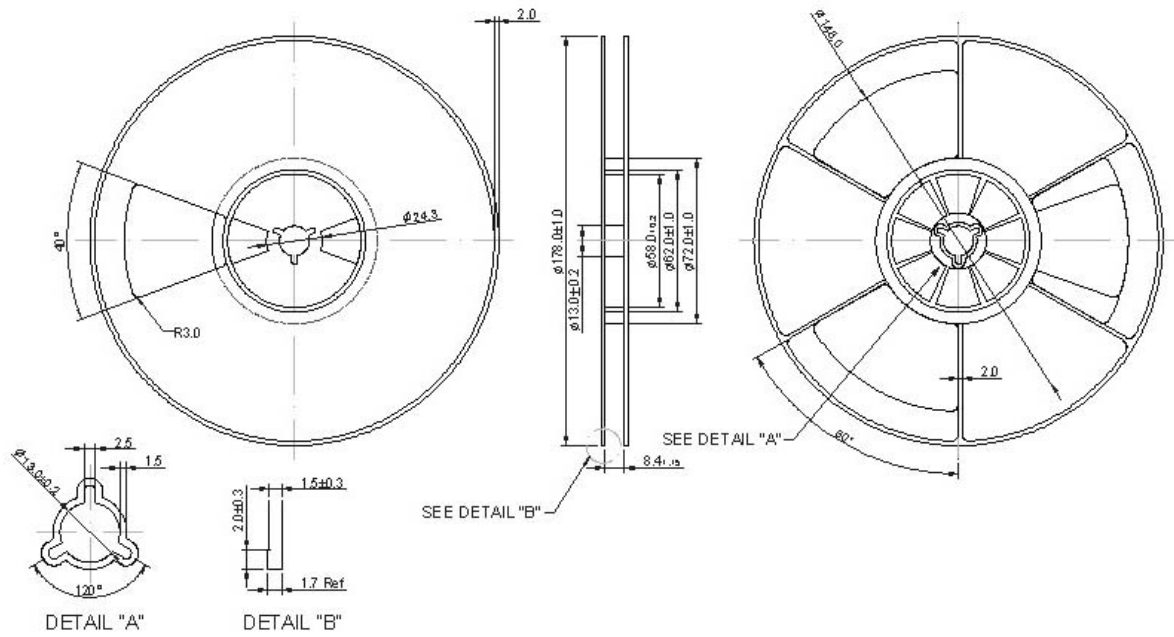
S22



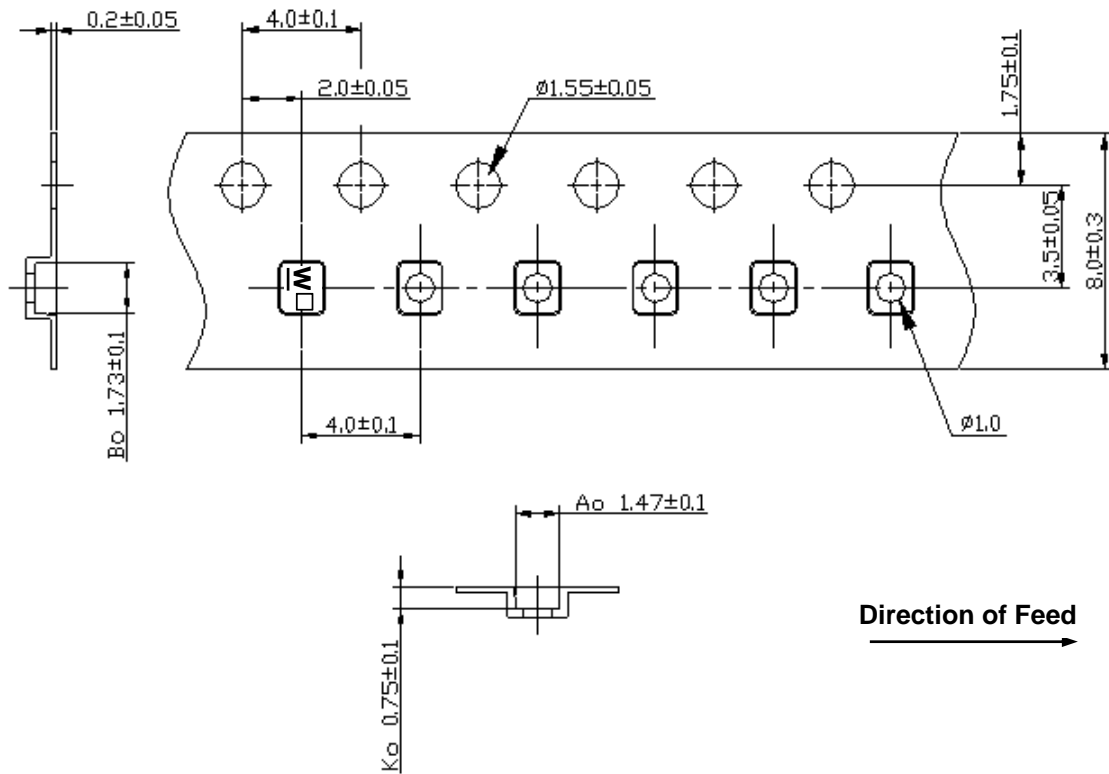
G. PACKING:

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 245~260°C peak (min. 10sec).
4. Time: 2 times.

