



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Name: SAW Filter 314.45 MHz (BW 1.06MHz) SMD 3.0X3.0 mm

TST Parts No.: TA1778C

Customer Parts No.: _____

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

Checked by: _____ Sam Lin *Sam Lin*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/08/19

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 314.45MHz

MODEL NO.:TA1778C

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

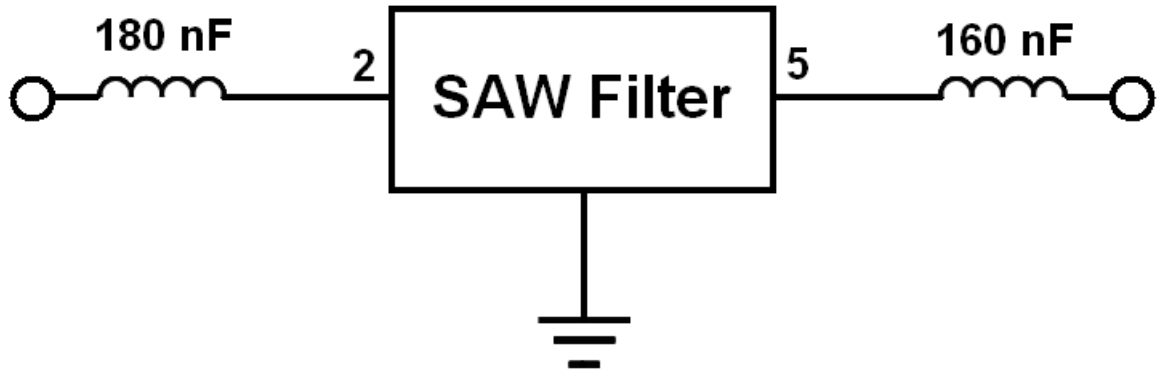
B. ELECTRICAL CHARACTERISTICS:

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

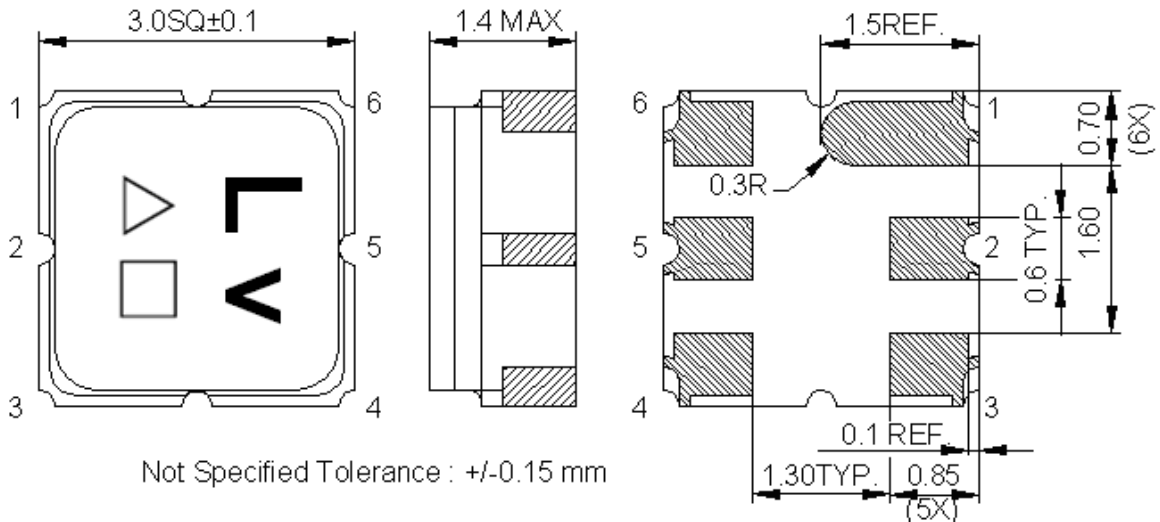
Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min	Typ.	Max
Center Frequency F_c	MHz	-	314.45	-
Minimum Insertion Loss (313.92 ~ 314.98 MHz) α_{min}	dB	-	2.7	3.0
Pass Band (Relative to α_{min})				
313.92 ~ 314.98 MHz	dB	-	1.6	2.5
313.90 ~ 315.00 MHz	dB	-	2.1	3.0
Relative Attenuation (Relative to 0 dB)				
10 ~ 200 MHz	dB	55	62	-
300 ~ 310 MHz	dB	30	34	-
310 ~ 313 MHz	dB	12	18	-
316 ~ 326 MHz	dB	12	18	-
326 ~ 340 MHz	dB	30	37	-
340 ~ 389 MHz	dB	35	42	-
389 ~ 568 MHz	dB	50	53	-
568 ~ 1164 MHz	dB	50	62	-
1164 ~ 2500 MHz	dB	50	65	-

C. TEST CIRCUIT:



D. OUTLINE DRAWING:



Not Specified Tolerance : +/-0.15 mm

2: Input
5: Output
Other: Ground
Unit: mm

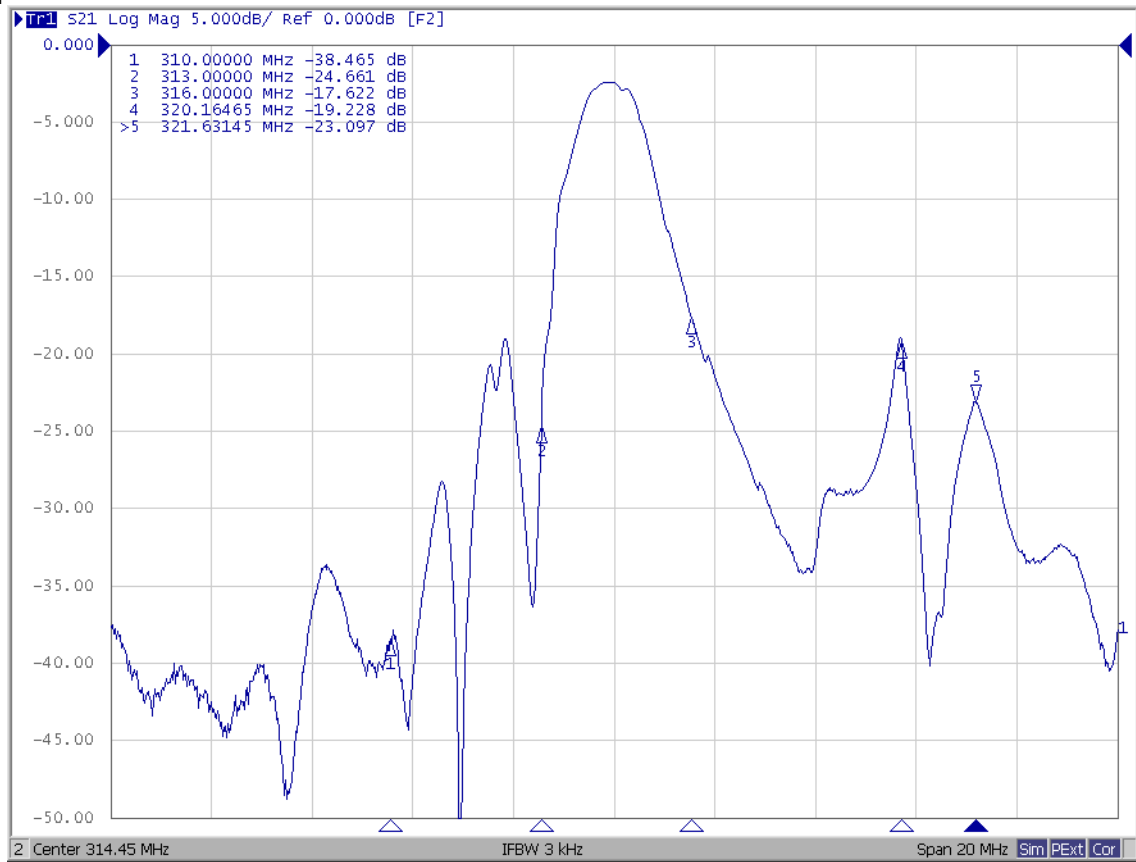
△ : Year Code (2009->9, 2010->0,..., 2018->8)

□ : Date Code (Follow the table from planner each year)

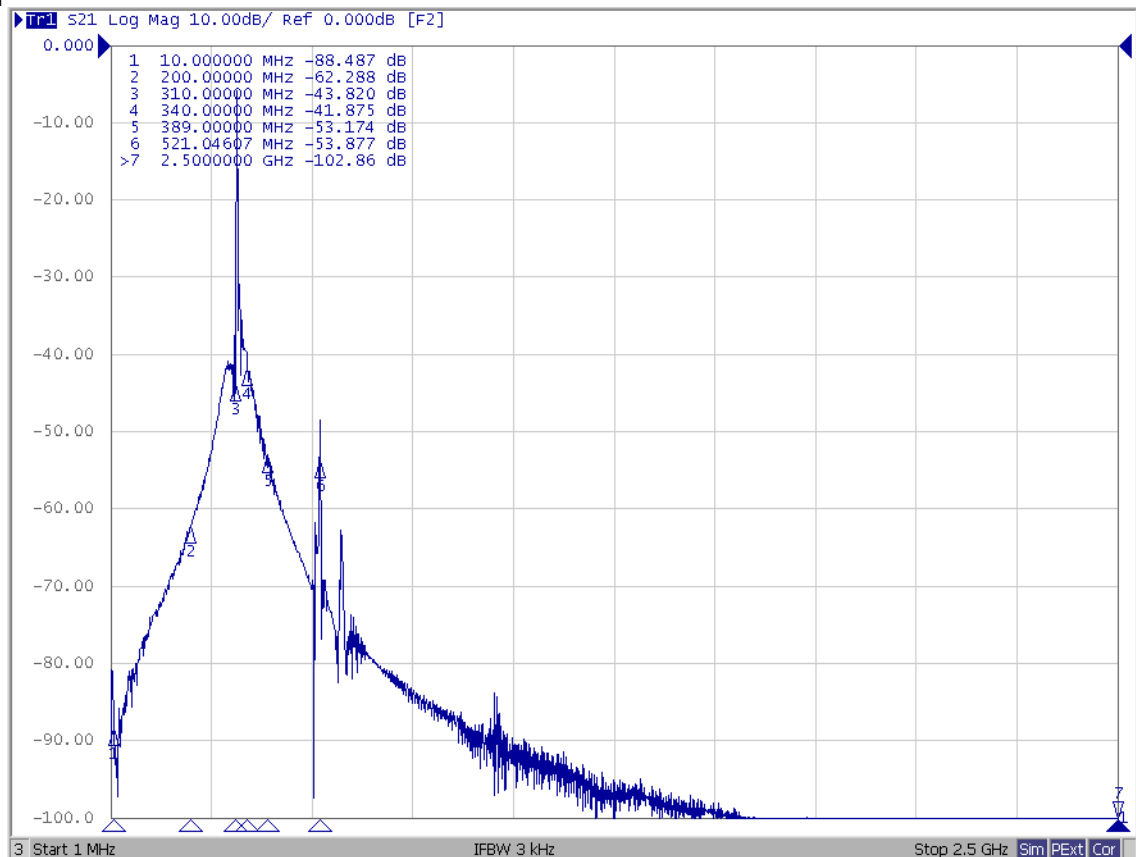
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. Frequency Characteristics:

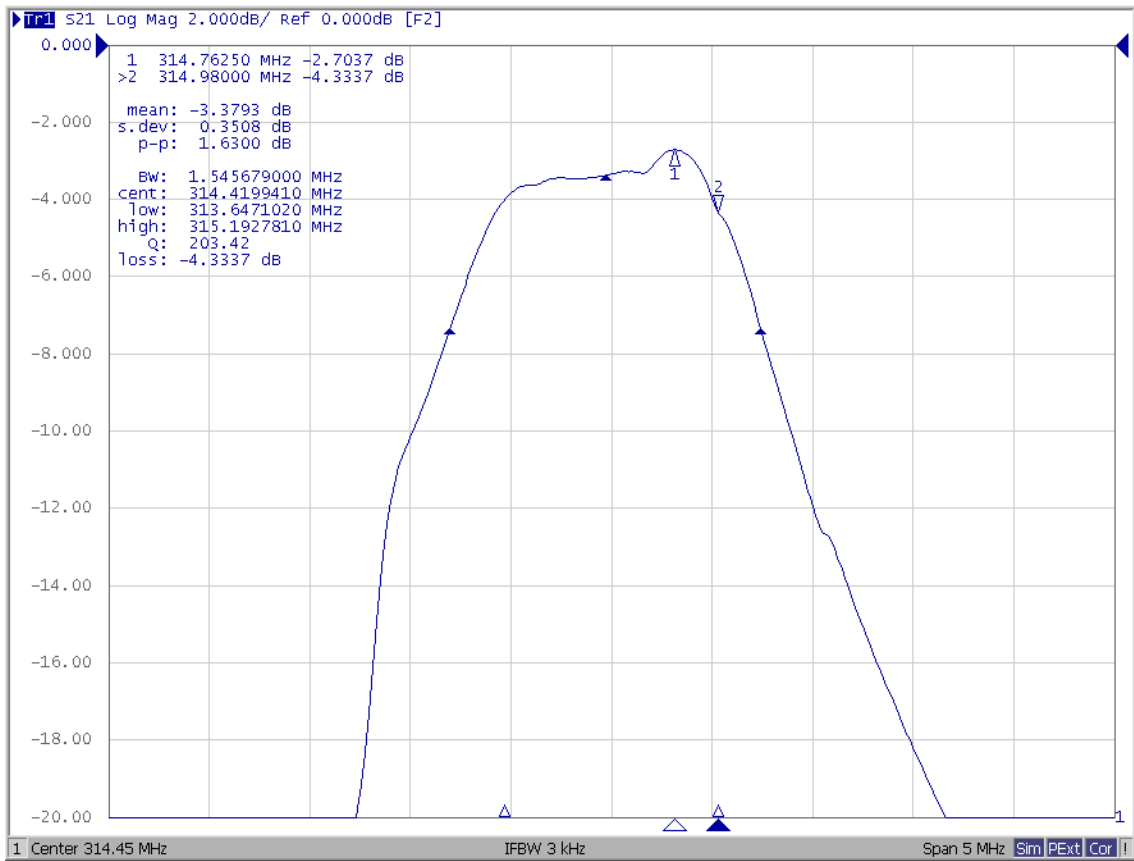
Span 20 MHz



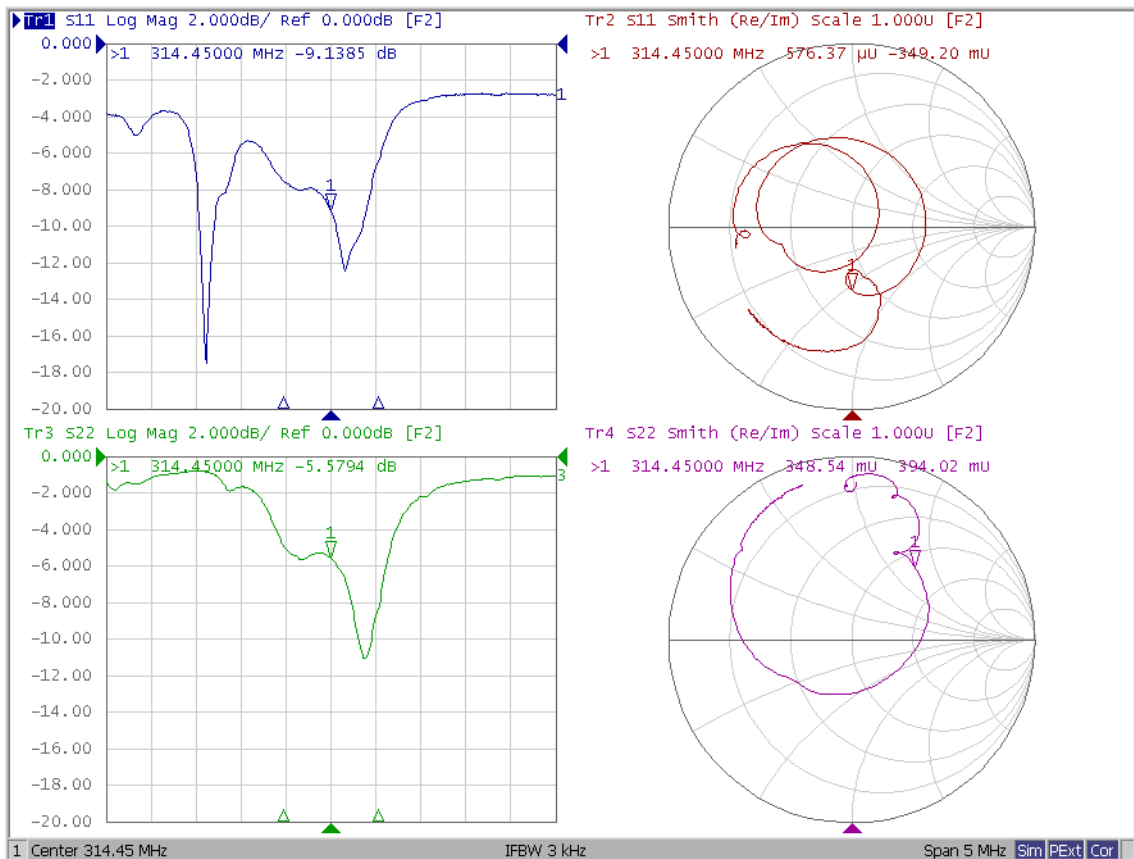
Span 2500 MHz



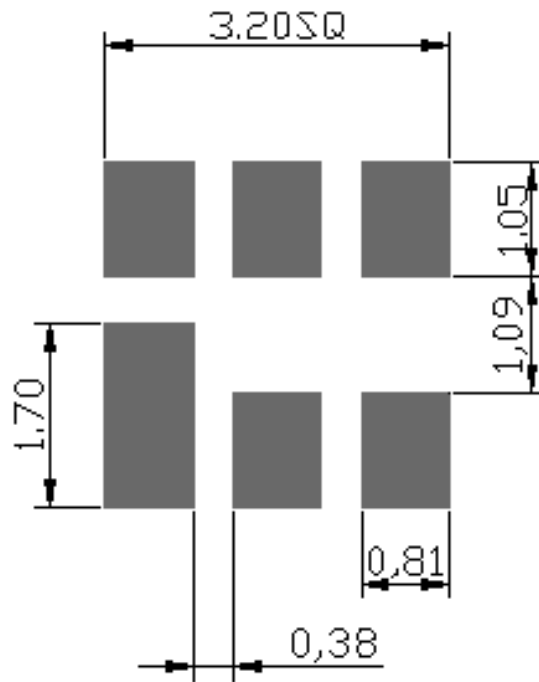
Span 5 MHz



Reflection Characteristic



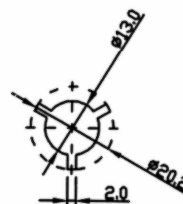
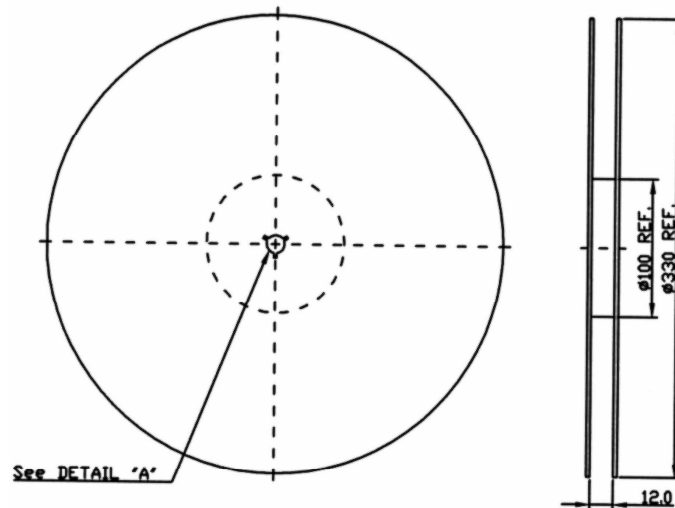
F. PCB FOOTPRINT:



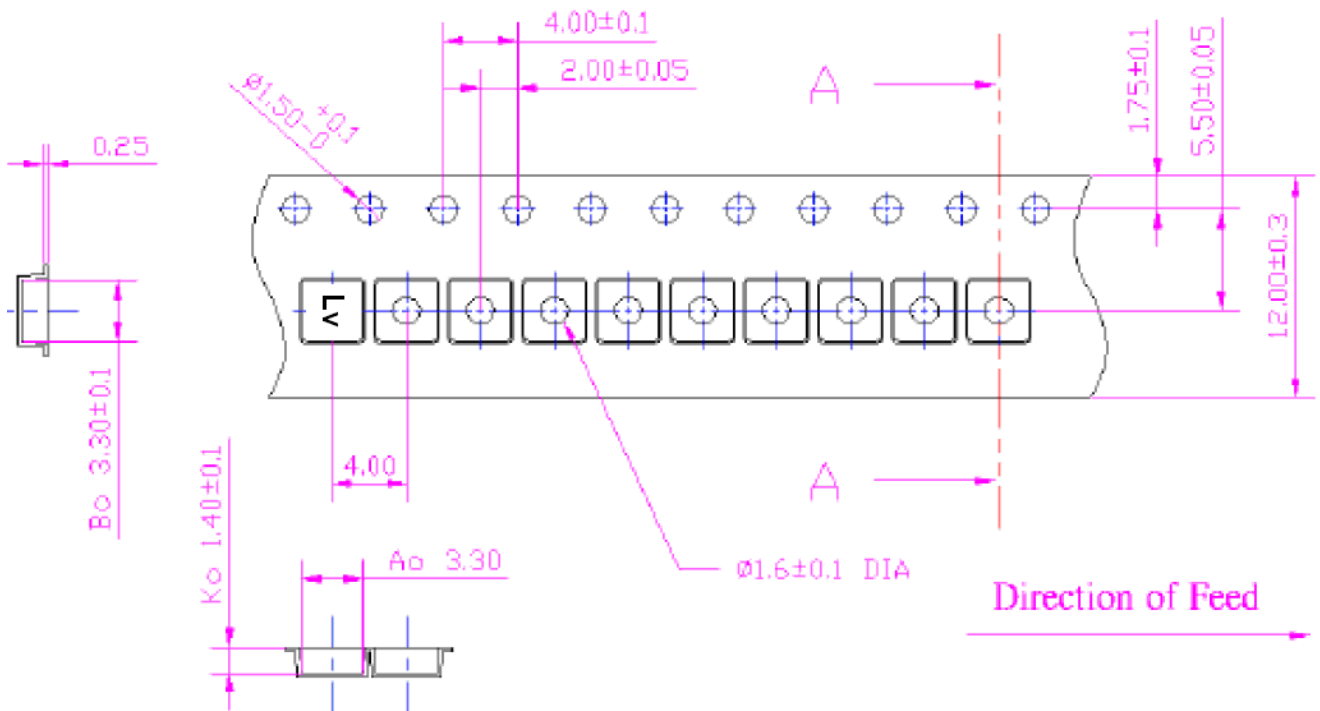
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ for $60 \sim 90$ seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for $50 \sim 80$ seconds and at $260^\circ\text{C} +0/-5^\circ\text{C}$ peak ($20 \sim 40$ sec).
4. Time: 2 times.

