



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 2332.5MHz (BW 25MHz) SMD 3.0×3.0mm

TST Parts No.:TA2311B (This part is compliant with AEC-Q200)

Customer Parts No.:_____

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

Checked by:_____ Michael Yang *Michael*

Approval by:_____ Andy Yu *Andy Yu*

Date:_____ 2019/08/27

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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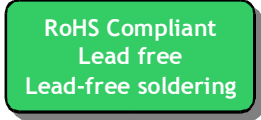
SAW Filter 2332.5 MHz(BW 25MHz) SMD 3.0×3.0mm

MODEL NO.: TA2311B

REV. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +105 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitive Level (MSL): Level 3



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

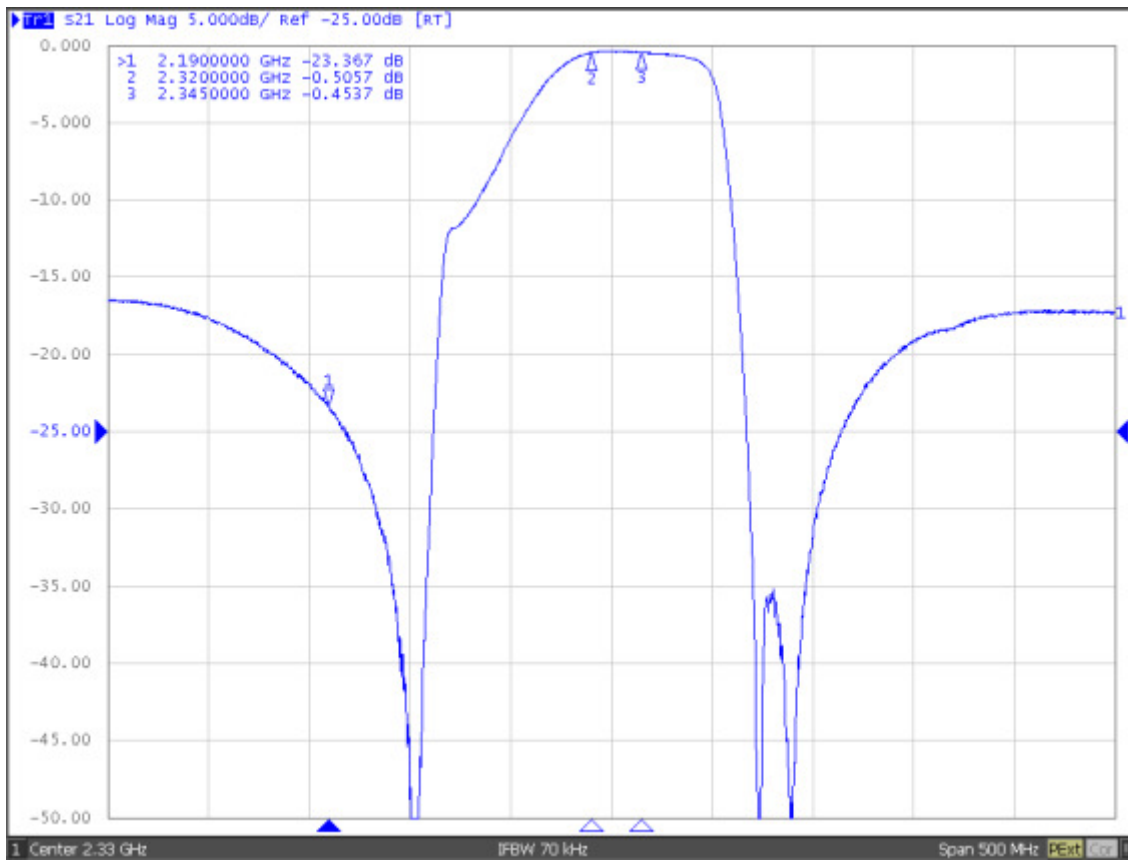
Terminating load impedance: $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.(1)	Max.
Center Frequency	MHz	-	2332.5	-
Insertion Loss (2320~2345 MHz)	dB	-	0.5	0.6 ¹⁾
Insertion Loss (2320~2345 MHz)	dB	-	0.5	0.65
Amplitude ripple (2320~2345 MHz)	dB	-	0.12	0.35
Variation of group delay (2320~2345 MHz)	ns		2	5
VSWR (2320~2345 MHz)	-	-	1.3	1.5
Attenuation				
698 ~ 894 MHz	dB	13	15	-
1710 ~ 1750 MHz	dB	11	13	-
1850 ~ 1990 MHz	dB	12	14	-
2400 ~ 2484 MHz	dB	15	17	-
2496 ~ 2690 MHz	dB	14	16	-
3400 ~ 3500 MHz	dB	17	19	-
Temperature Coefficient	ppm/K	-	-36	-

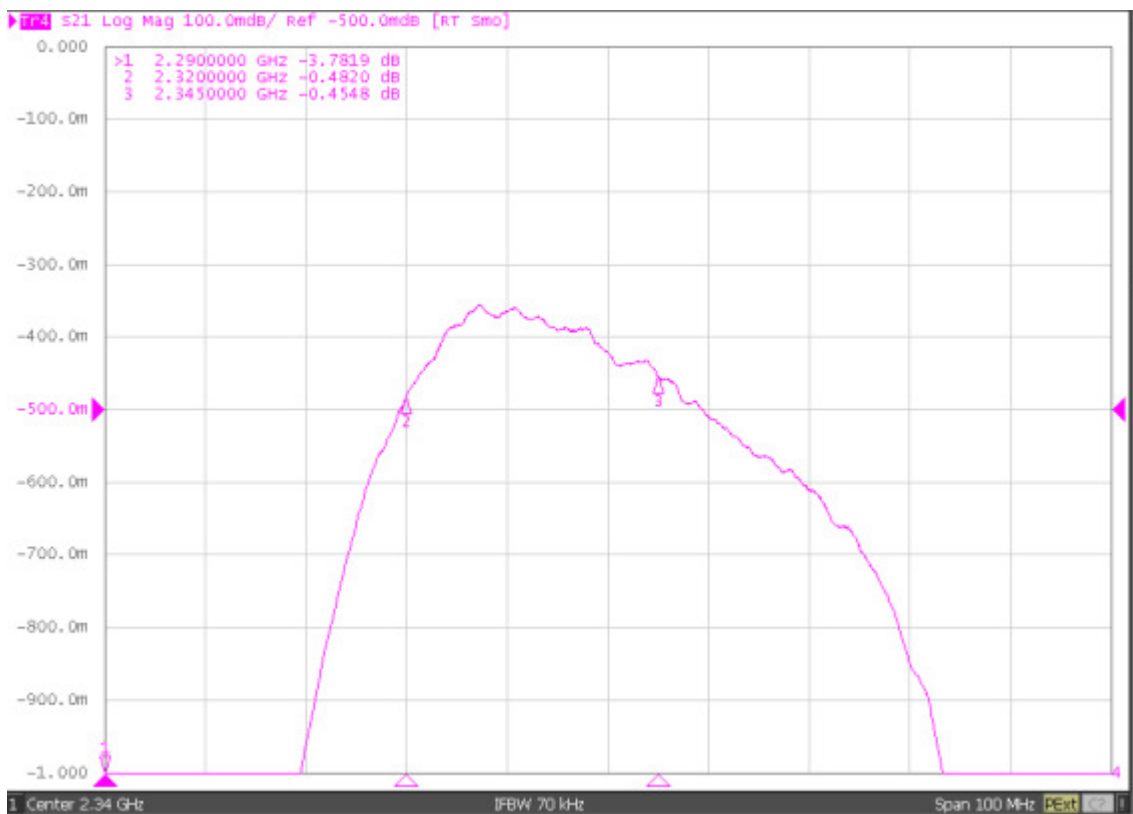
1) 0.6dB for 25°C

C. Frequency Characteristics:

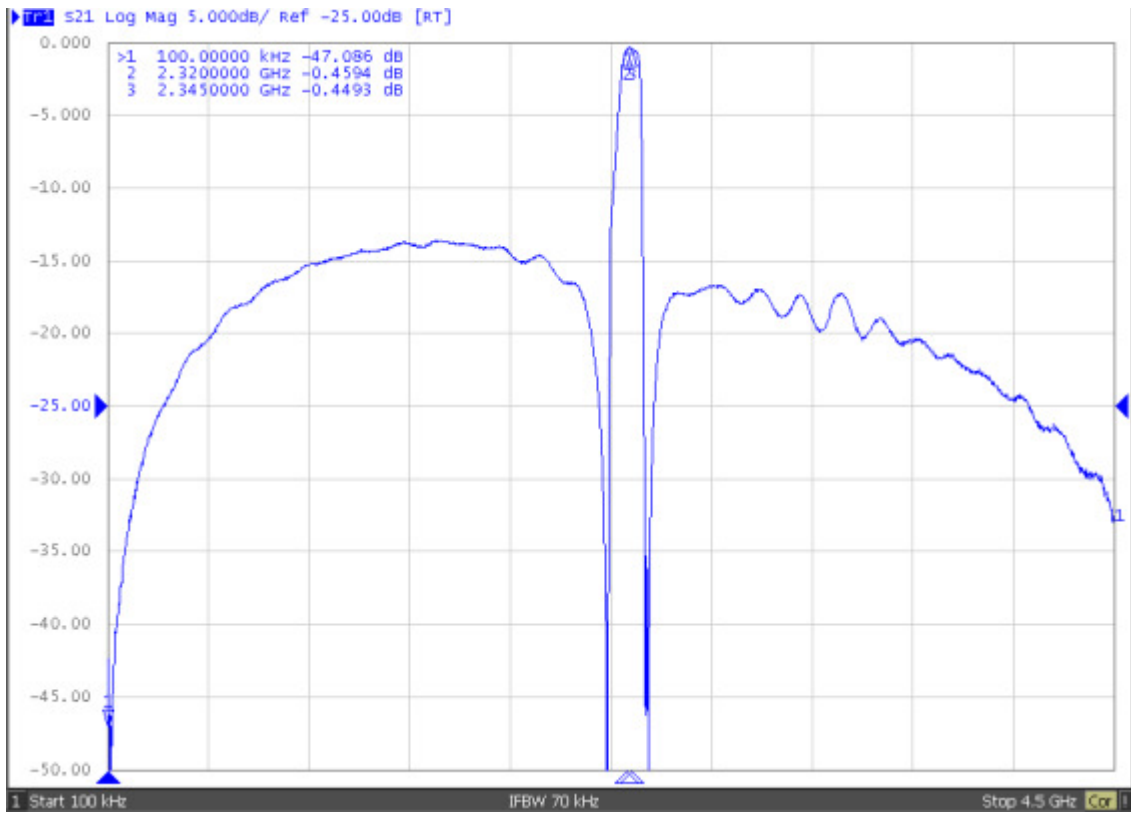
S21 : Span 200 MHz



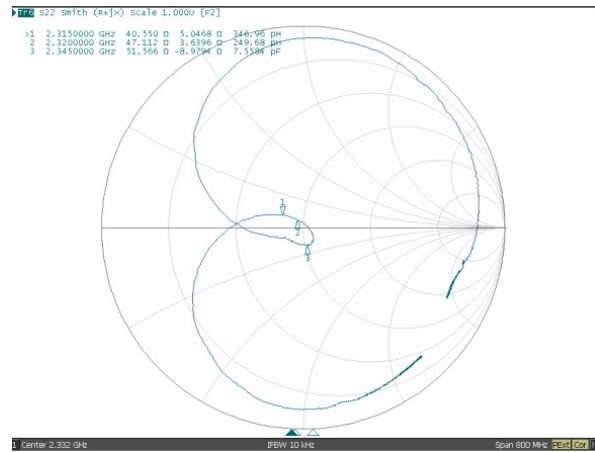
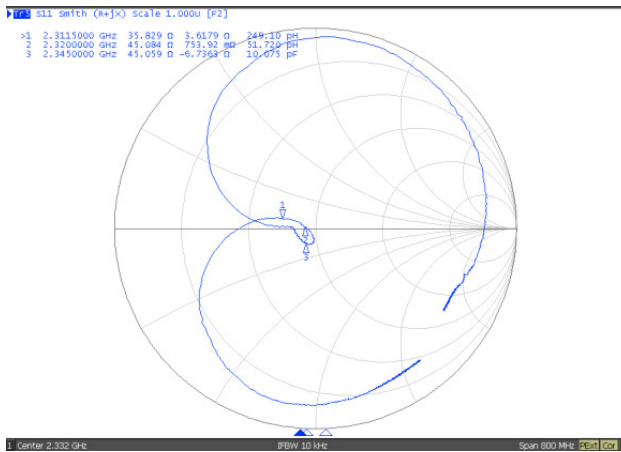
S21 : Span 100 MHz



S21 : Span 4.5 GHz

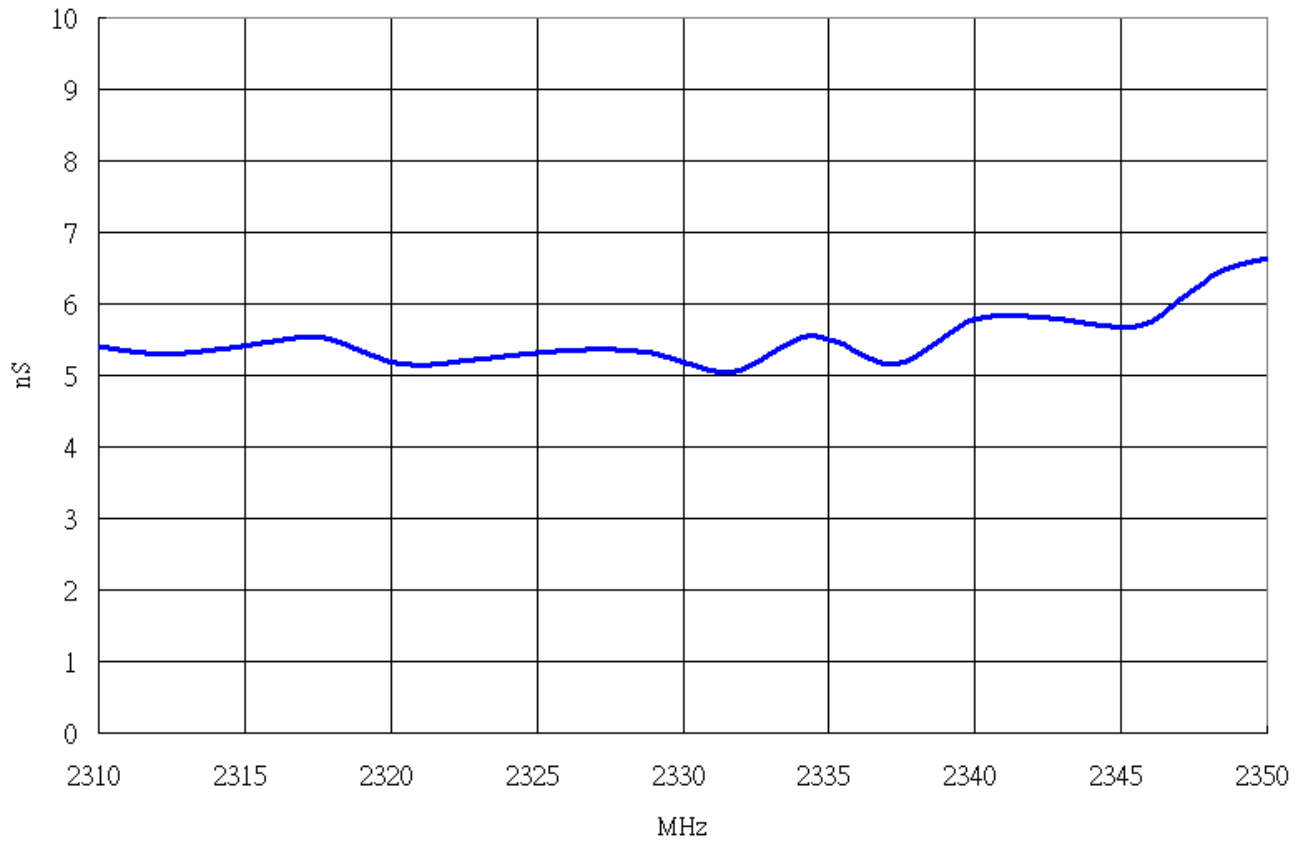


S11/S22 : Span 800 MHz



G_Delay_S21 : Span 50MHz

TA2311B

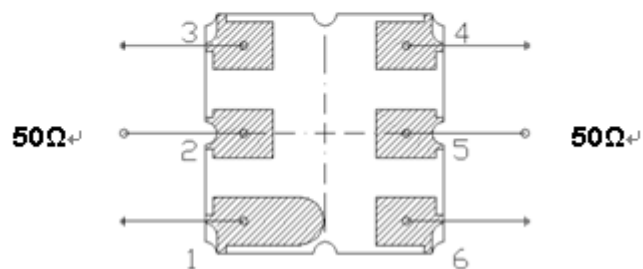


D. MEASUREMENT CIRCUIT:

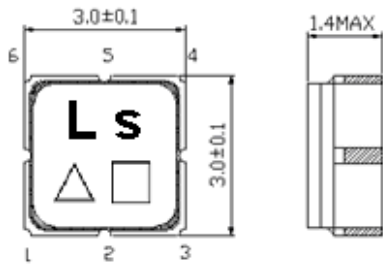
(2): Unbalance Port.

(5): Unbalance Port.

Others: Ground.

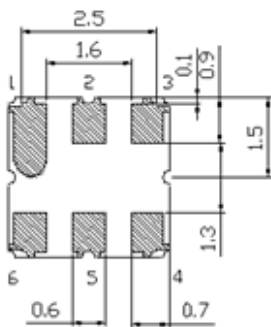


E. OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm



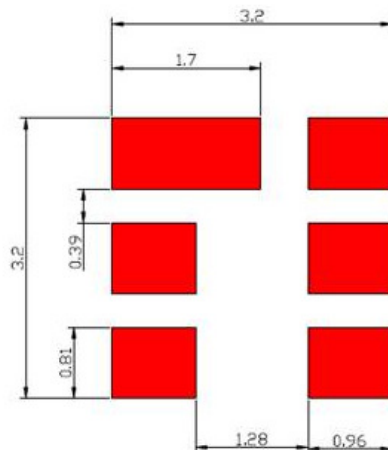
Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

△ : 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

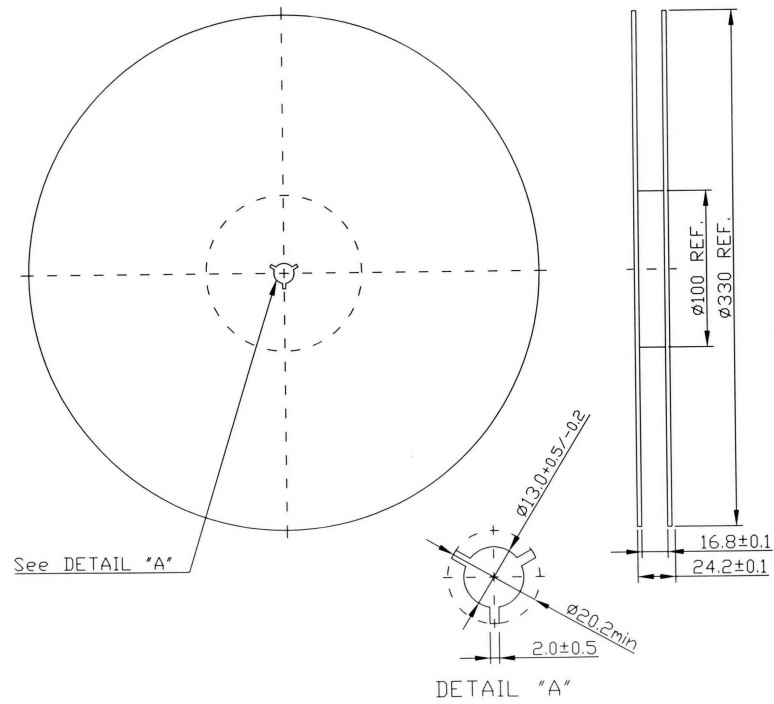
F. PCB Footprint



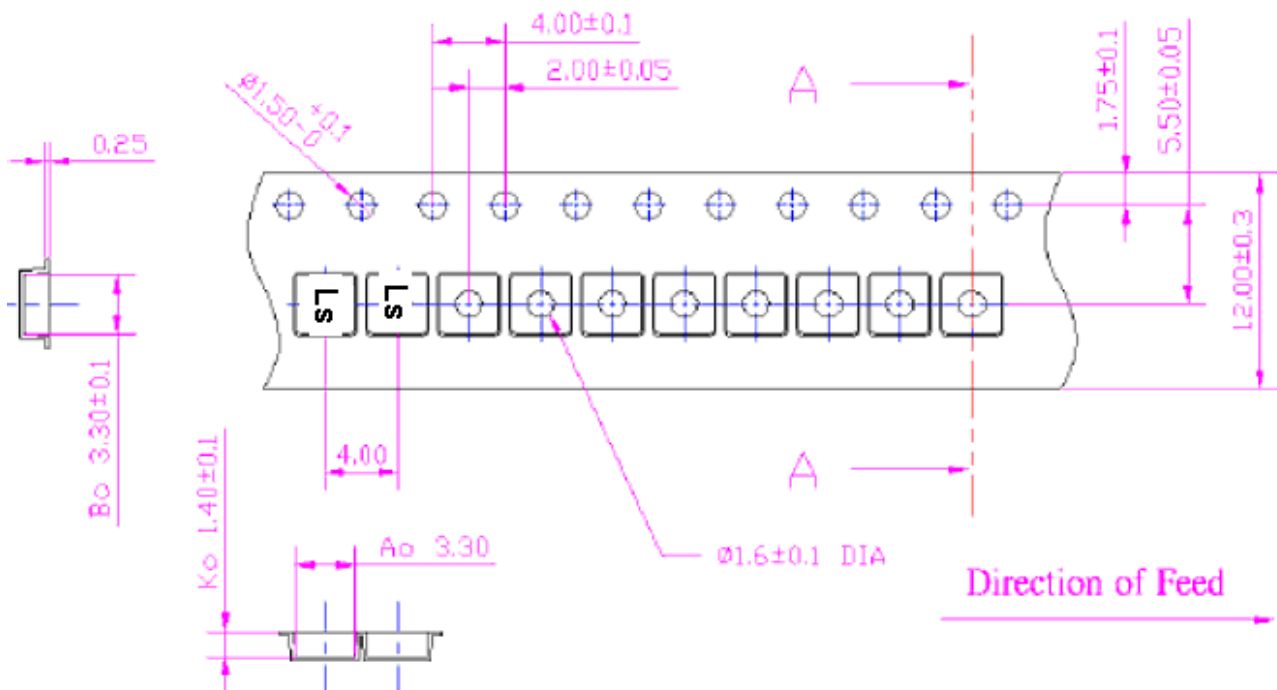
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°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.

