



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW Rx Filter 2140MHz LTE Band 1 SMD 1411

TST Part No.: TA1818B (This part is compliant with AEC-Q200)

Customer Part No.: _____

1.

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

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 2017/07/06

- Customer signed back is required before TST can proceed with sample build and receive orders.
- Orders received without customer signed back will be regarded as agreement on the specifications.
- Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the change



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SAW Rx Filter 2140MHz LTE Band 1 SMD 1411 (60MHz BW)

MODEL NO.: TA1818B

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 1
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

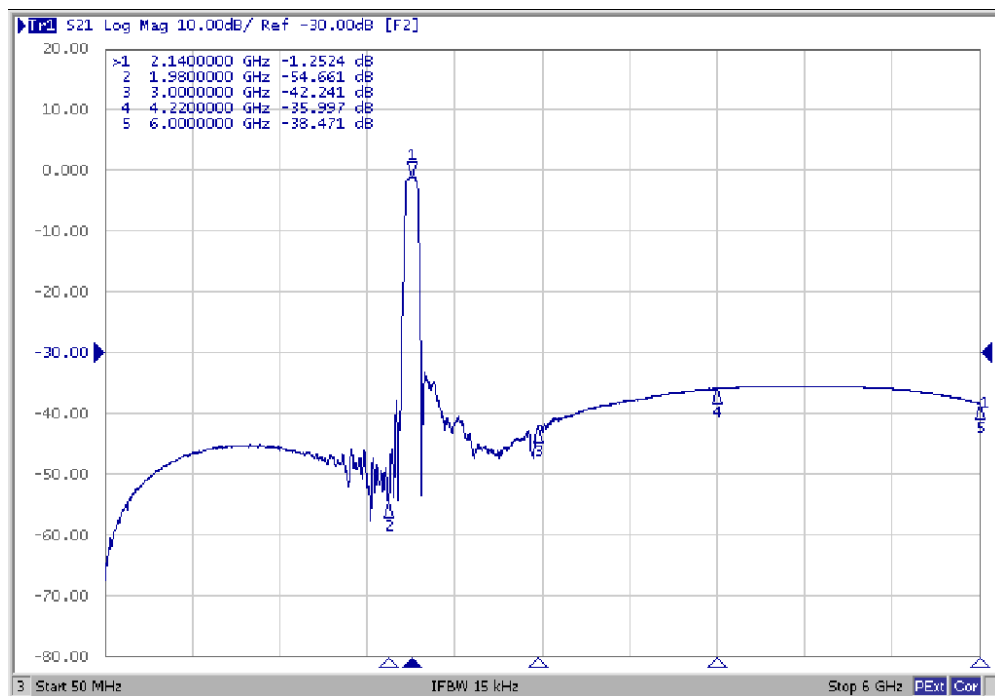
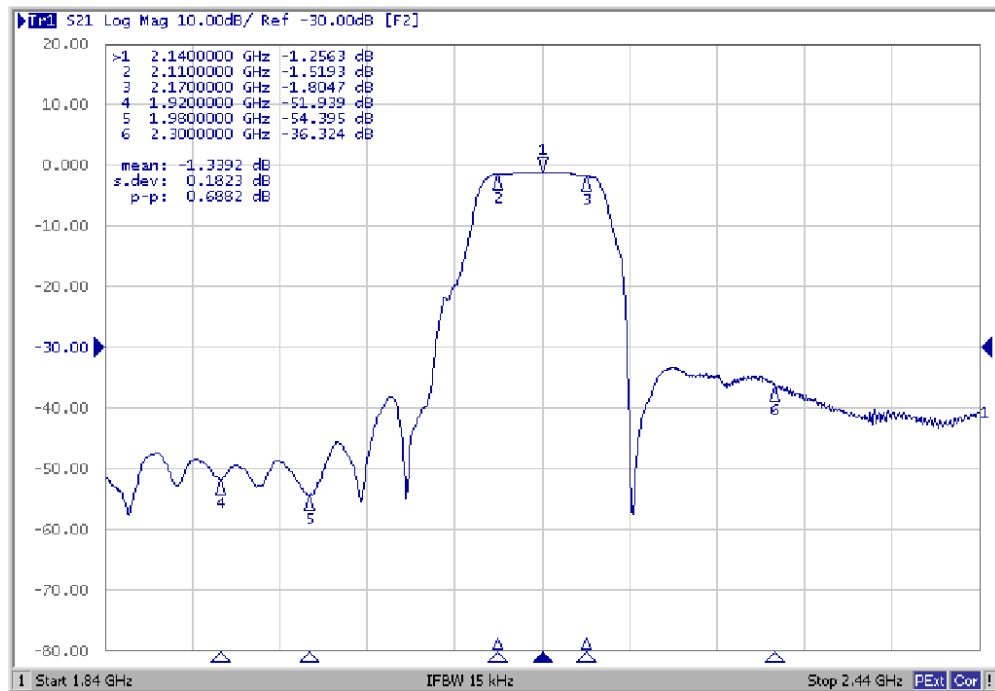
Terminating load impedance : $Z_L = 50 \Omega$

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2140.0	-
Insertion Loss within 2110.0 ~ 2170.0 MHz	dB	-	1.9	2.5
Amplitude Ripple within 2110.0 ~2170.0 MHz	dB _{p-p}	-	0.7	1.4
VSWR within 2110.0 ~2170.0 MHz	-	-	1.9	2.4
Attenuation:				
1920.0 ~ 1980.0 MHz	dB	43	48	-
2040.0 ~ 2045.0 MHz	dB	35	38	-
2045.0 ~ 2050.0 MHz	dB	37	42	-
4220.0 ~ 4340.0 MHz	dB	30	38	-

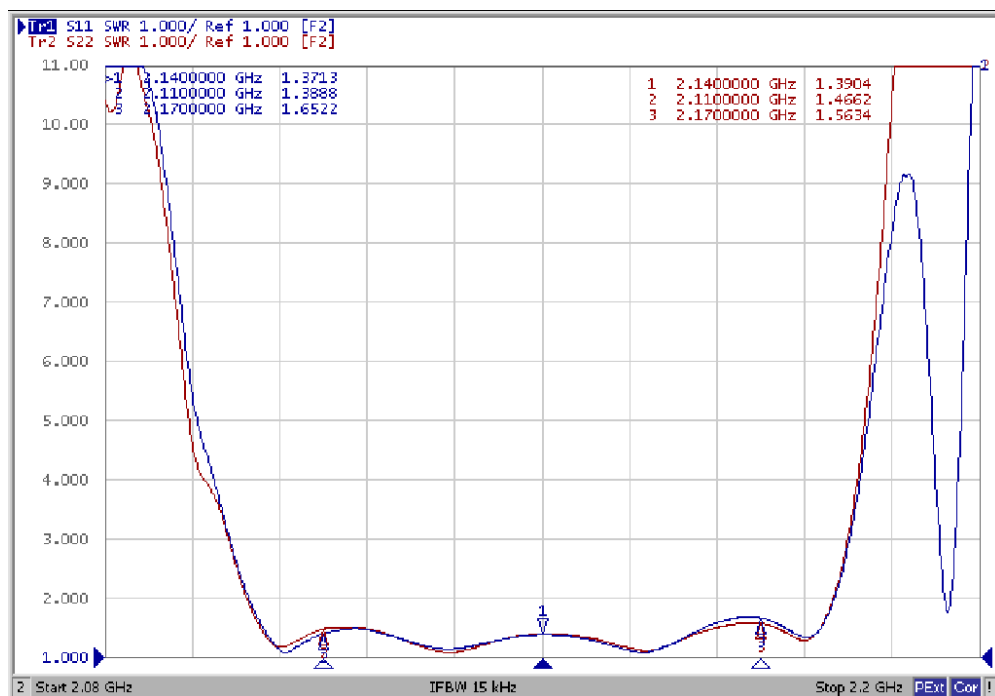
Notes : (1) No Matching Network .

C. FREQUENCY CHARACTERISTICS:

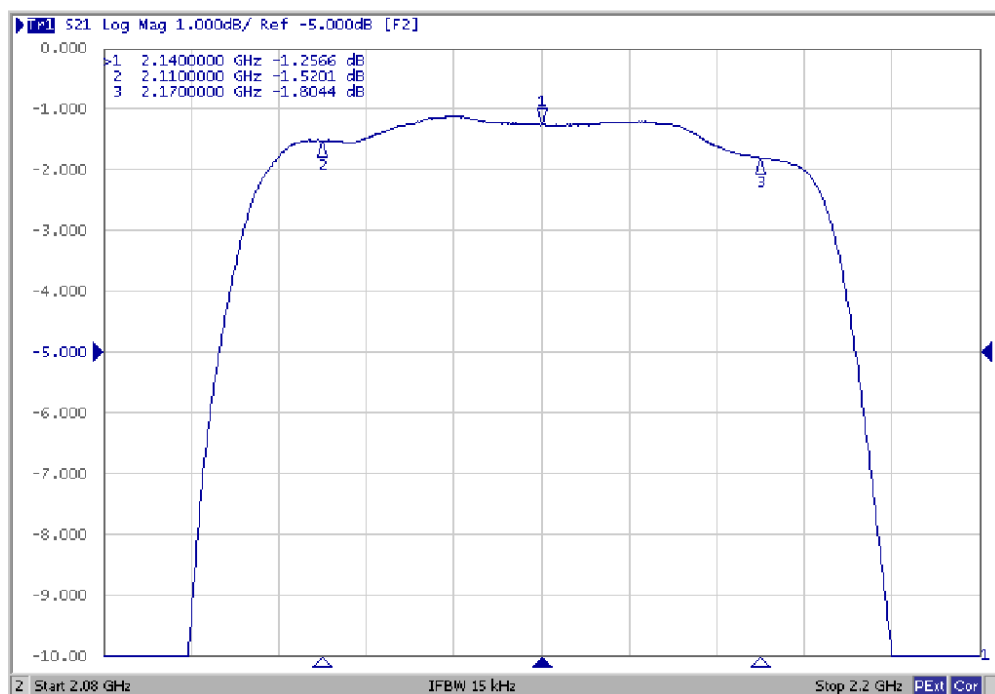
Frequency Response



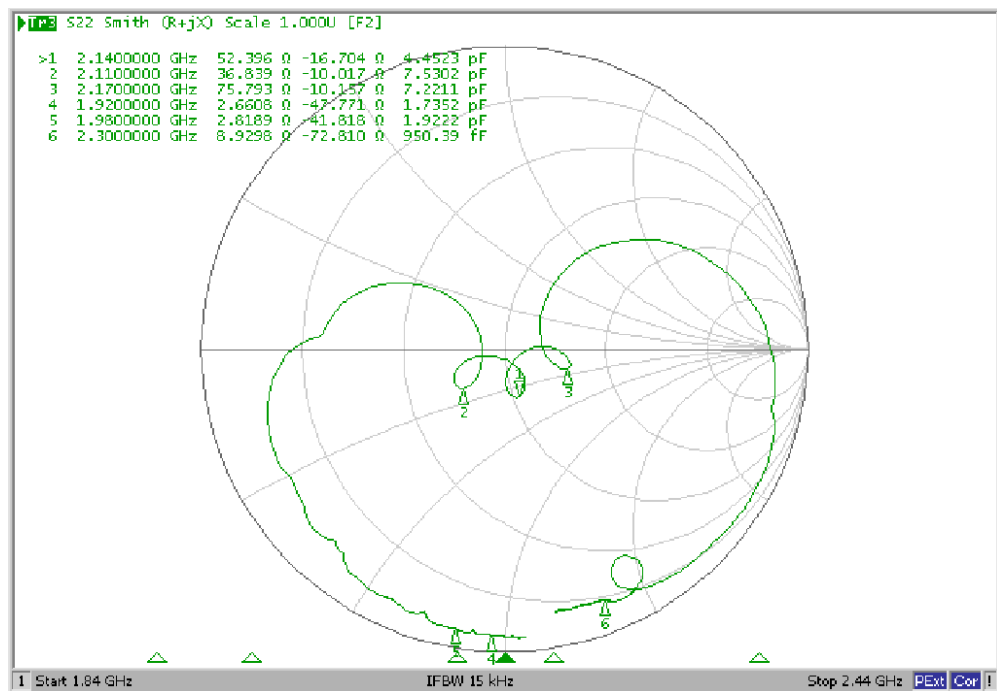
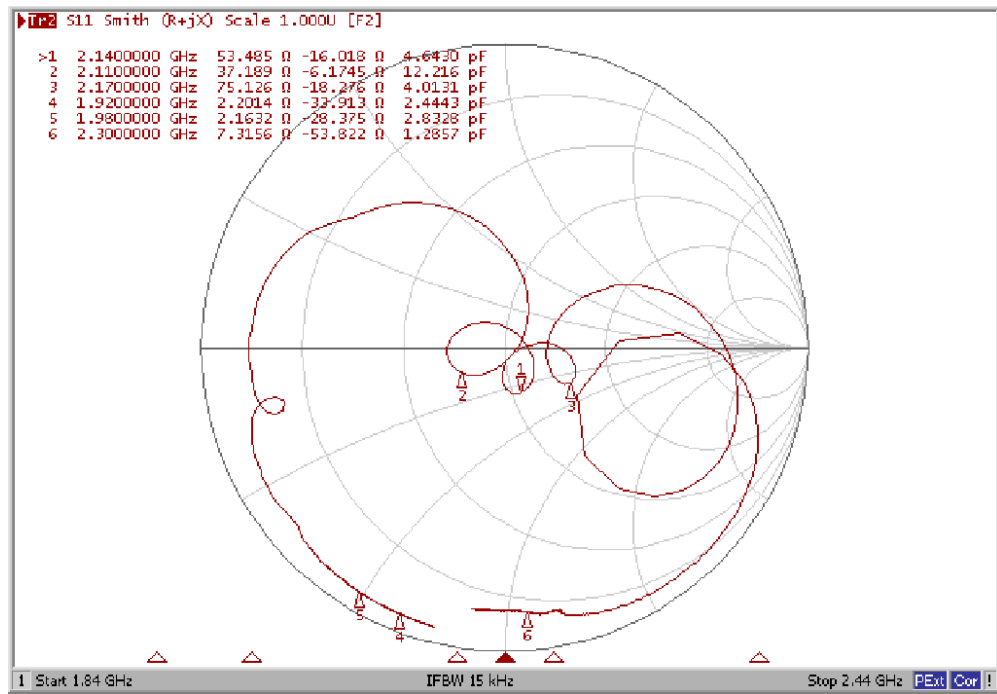
VSWR



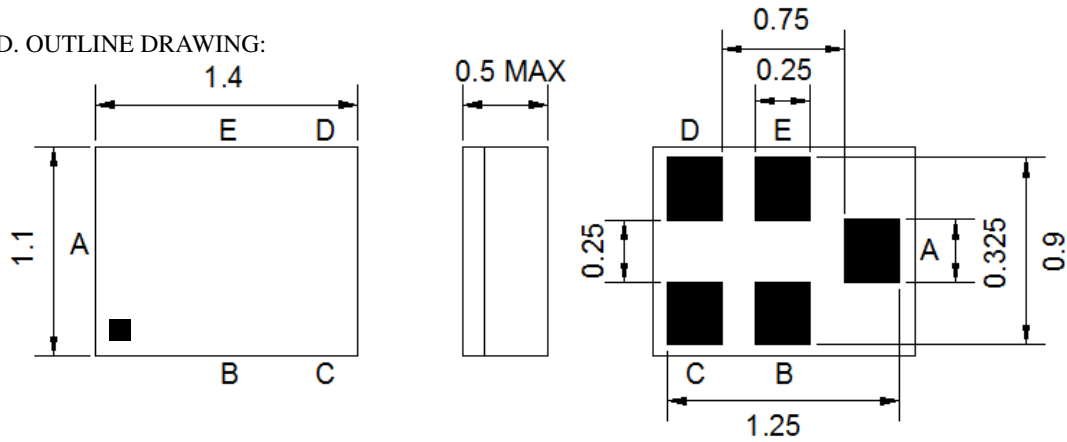
Ripple



Smith Chart

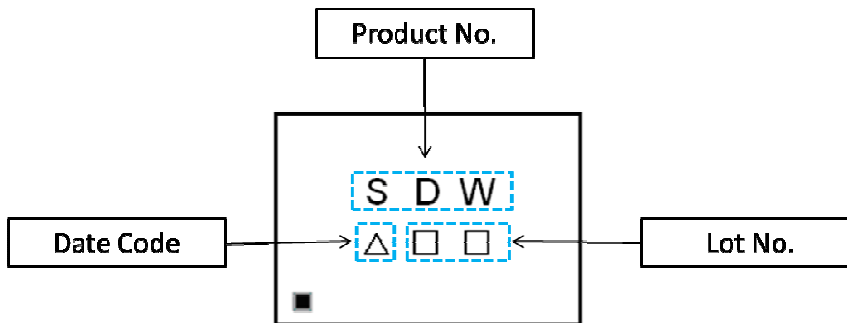


D. OUTLINE DRAWING:



Pin Description	
B, C, E	Ground
A	Input
D	Output

Top View (Pilot Run):



Marking Descriptions:

Series Number : SDW

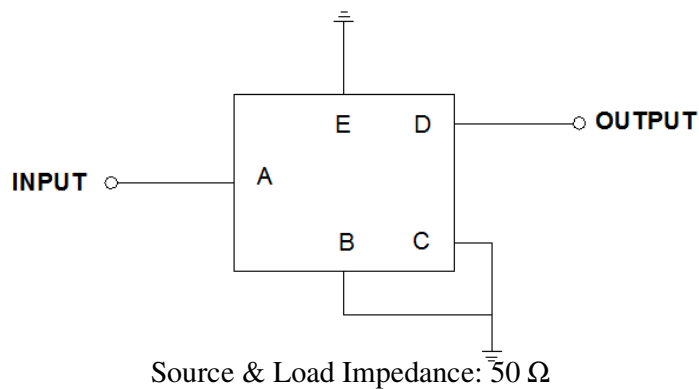
△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

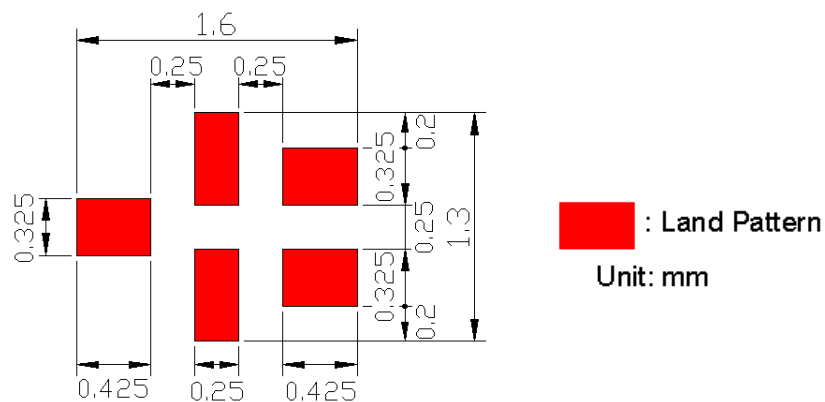
Product date Code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z

E. MEASUREMENT CIRCUIT:



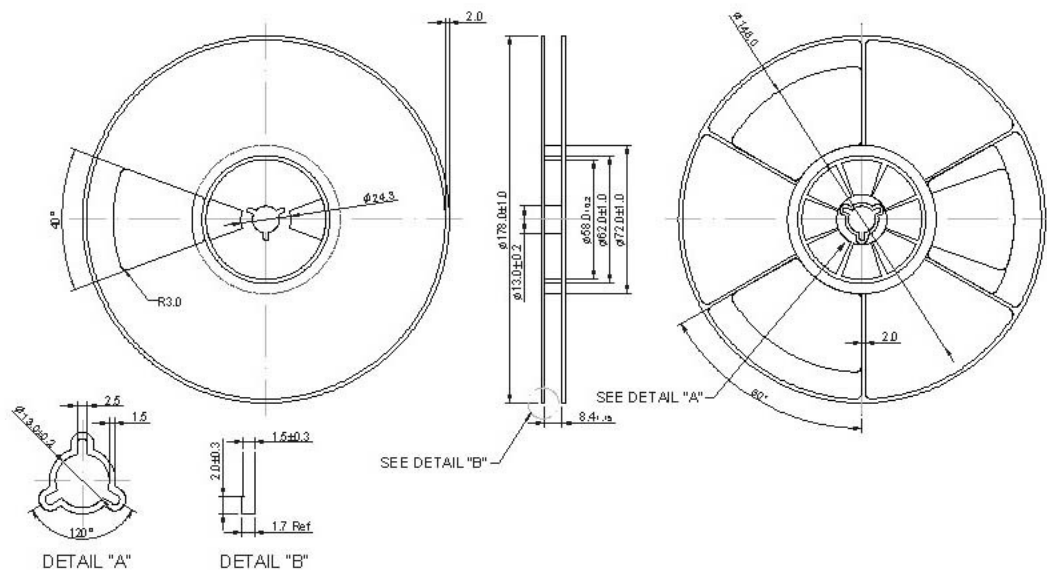
PCB Footprint :



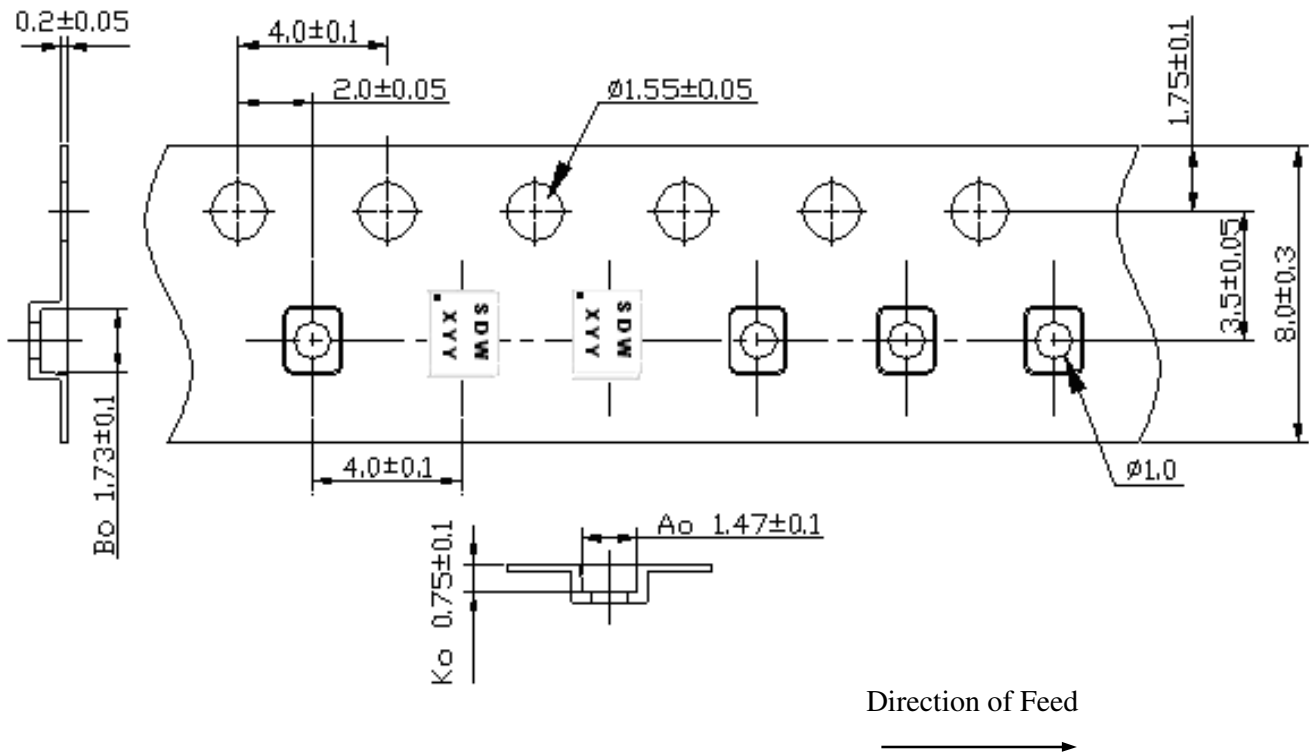
F. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150 \sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} \pm 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

