



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW Rx Filter 881.5MHz LTE Band 5 SMD 1411

TST Parts No.: TA1816B (This part is compliant with AEC-Q200)

Customer Parts No.: _____

Customer signature required

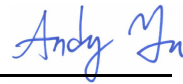
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2020/02/17

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 change



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SAW Rx Filter 881.5MHz LTE Band 5 SMD 1411 (25MHz BW)

MODEL NO.:TA1816B

REV.4.0

A. MAXIMUM RATING:

1. Maximum Input Power: 17 dBm
2. DC voltage: 0 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 3
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

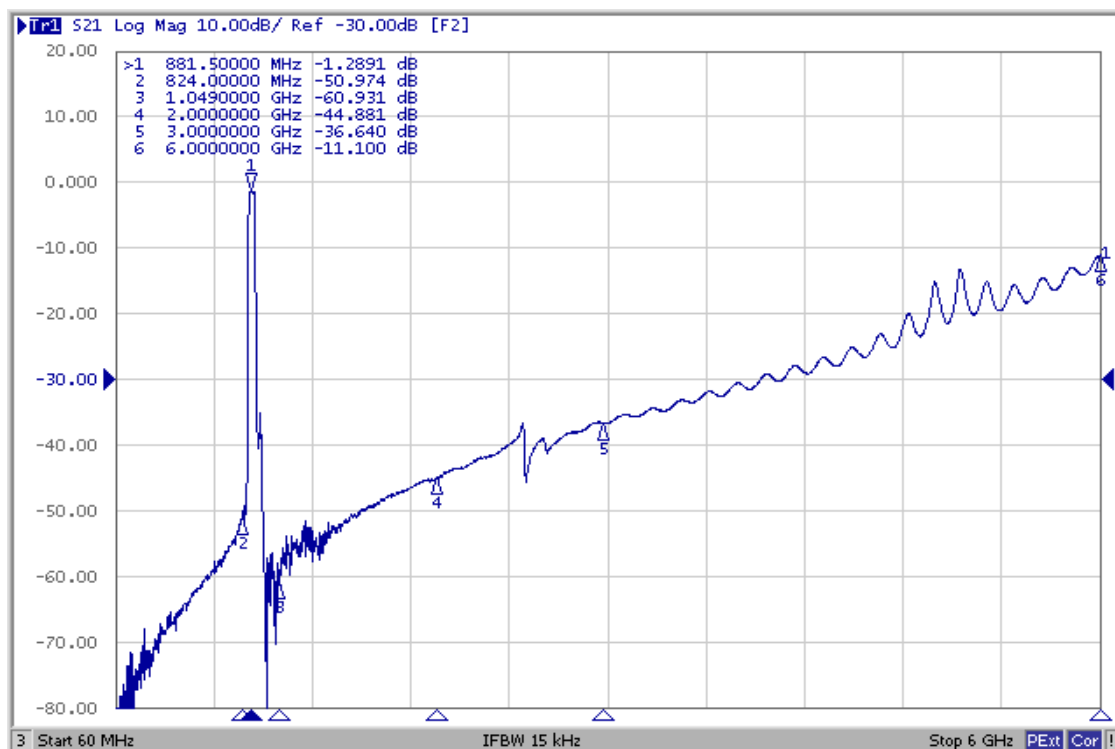
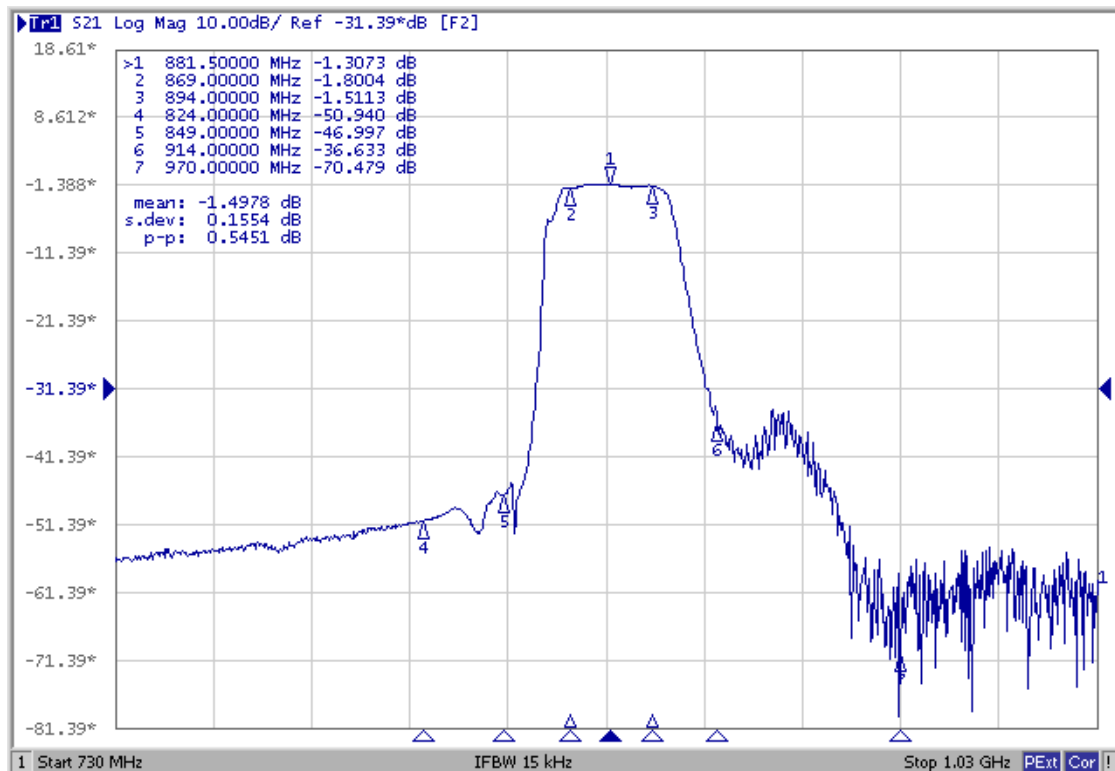
Terminating load impedance: $Z_L = 50 \Omega$ (Single)

Parameters Description		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	881.5	-
Insertion Loss	869~894 MHz	dB	-	1.7	2.3
VSWR	869~894 MHz	-	-	1.7	2.1
Amplitude Ripple	869~894 MHz	dB _{p-p}	-	0.5	1.2
Attenuation:					
DC~824 MHz		dB	40	59	-
824~849 MHz		dB	40	56	-
914~970 MHz		dB	25	35	-
970~1049 MHz		dB	38	57	-
1049~2000 MHz		dB	40	57	-
2000~3000 MHz		dB	30	45	-
3000~6000 MHz		dB	10	18	-

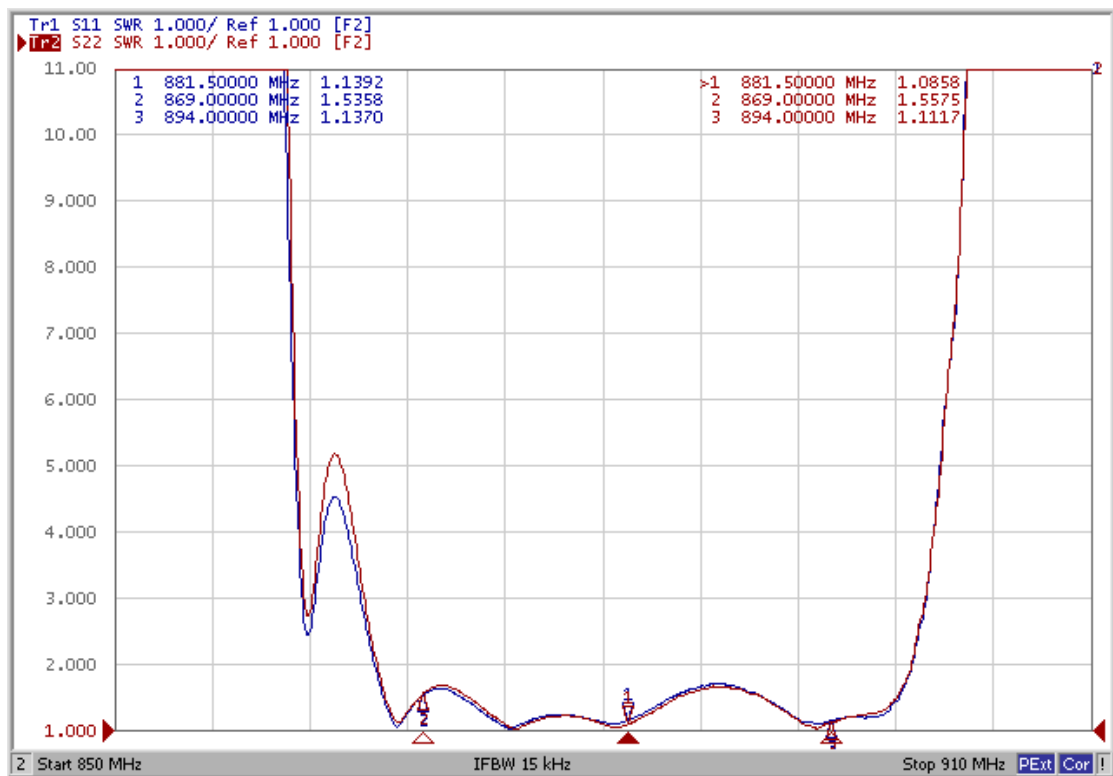
Notes: (1) No Matching Network.

C. Frequency Characteristics:

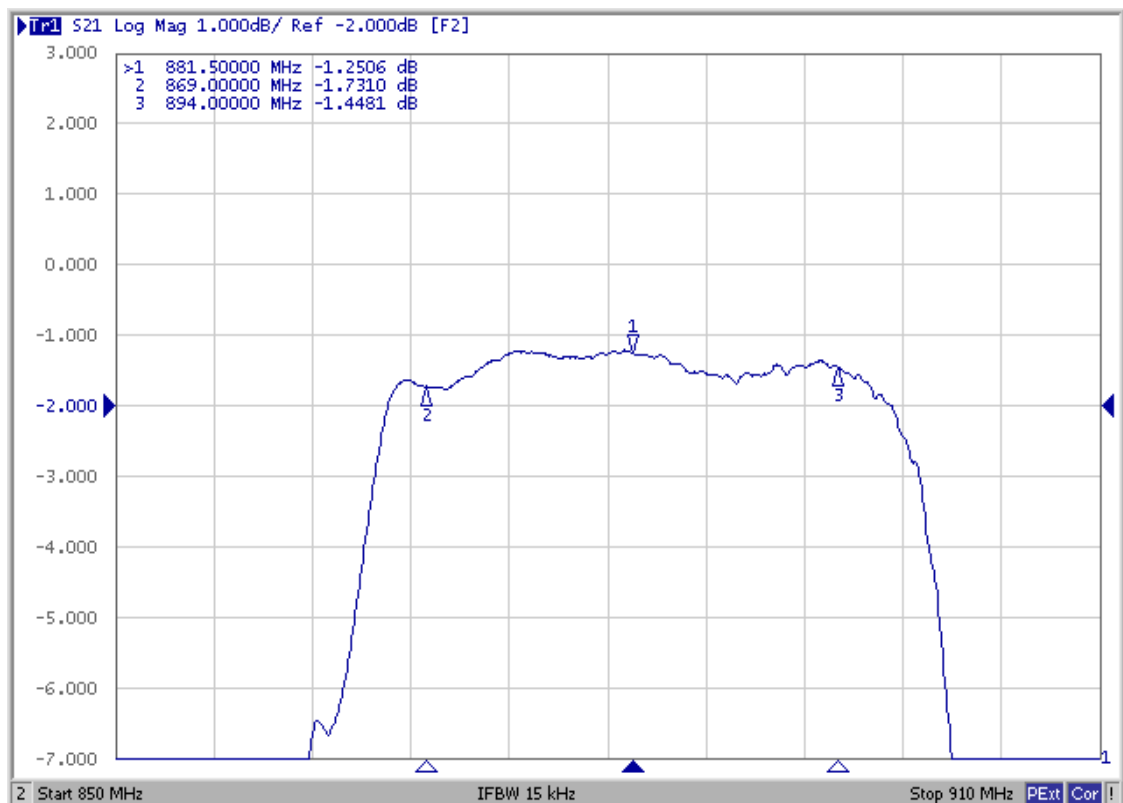
Frequency Response



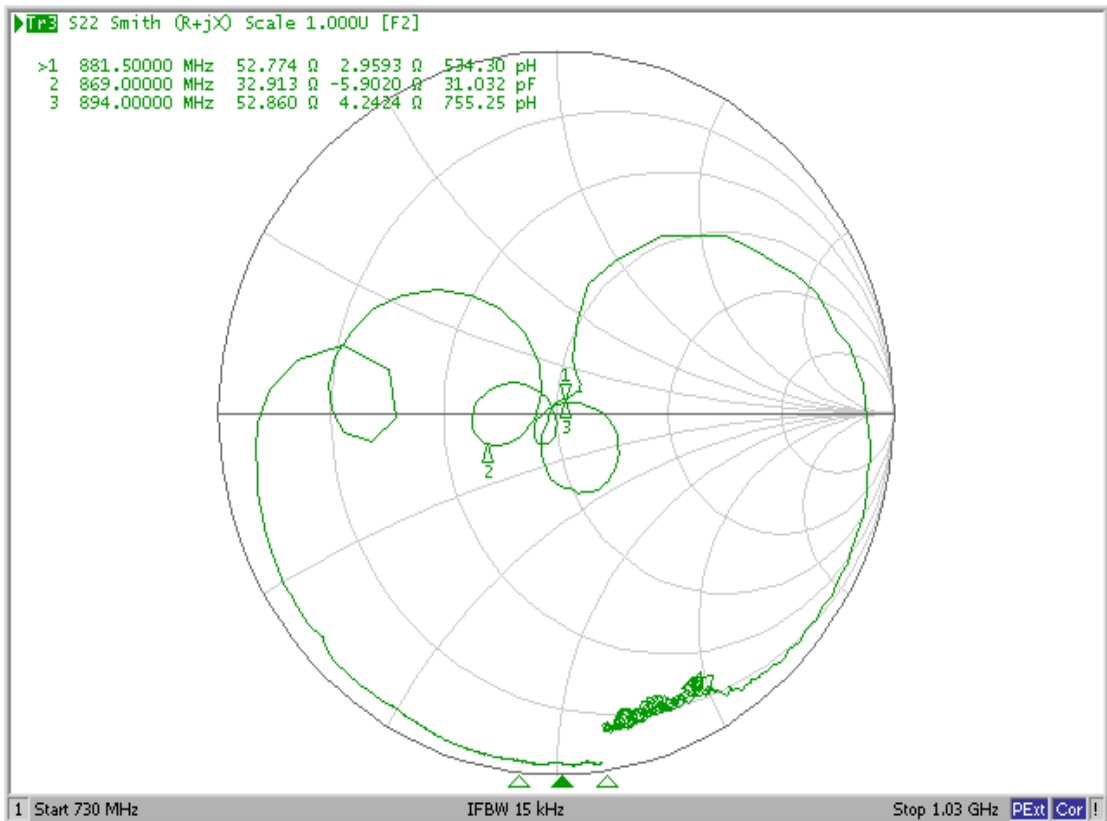
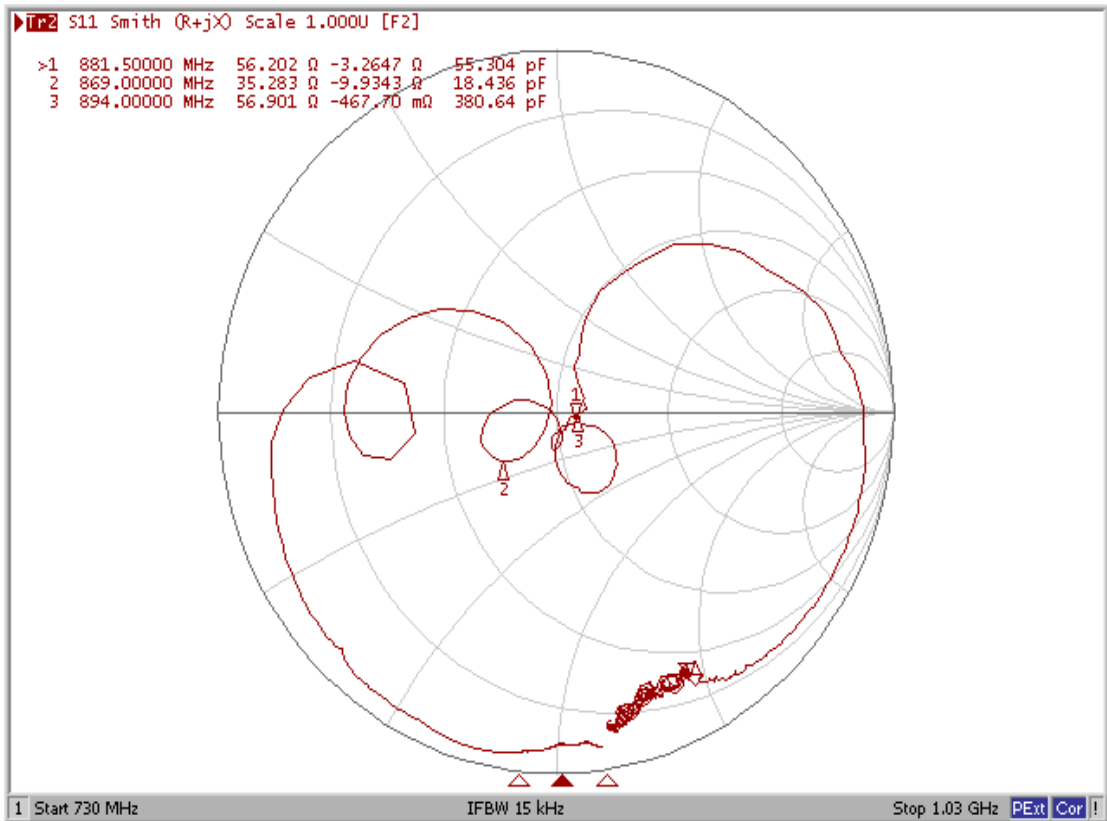
VSWR



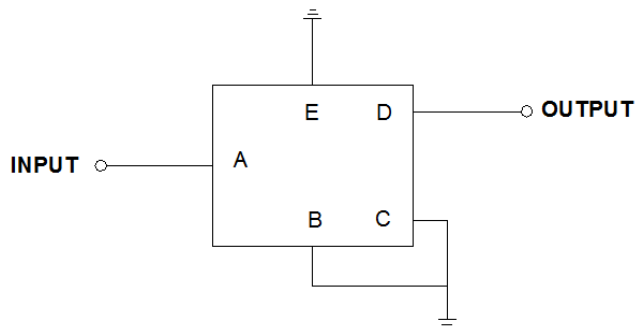
Ripple



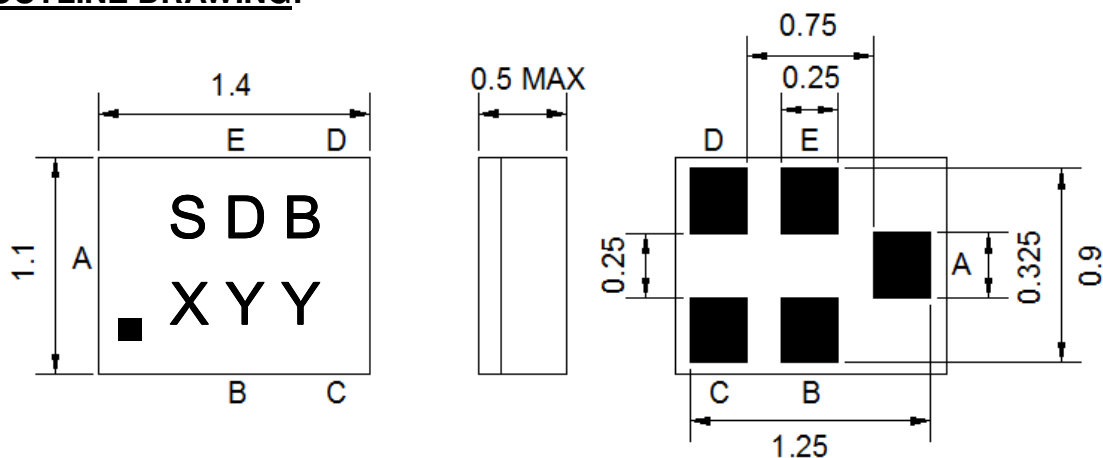
Smith Chart



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



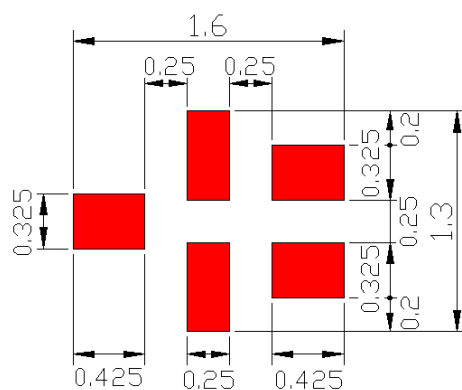
Marking Descriptions	
S	Series Number
DB	Series Number
X	Date Code(Year+Month)
YY	Lot No

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

Date Code

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z

PCB Footprint :

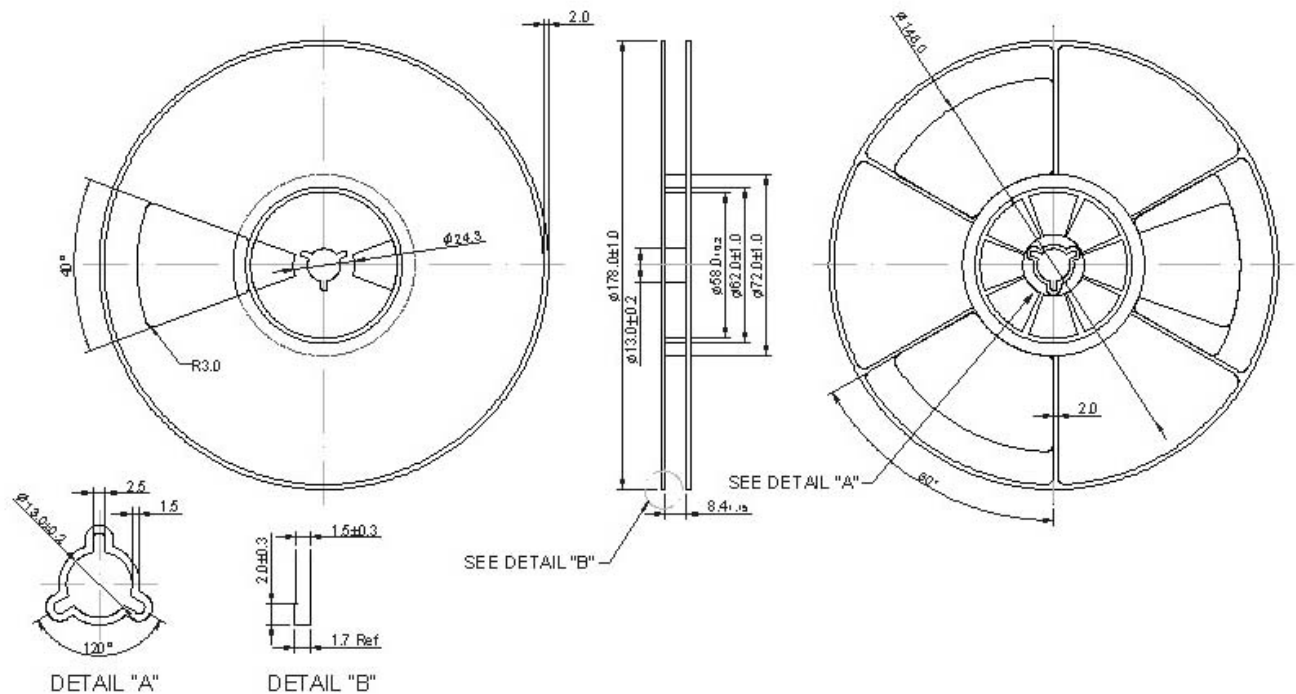


 : Land Pattern
Unit: mm

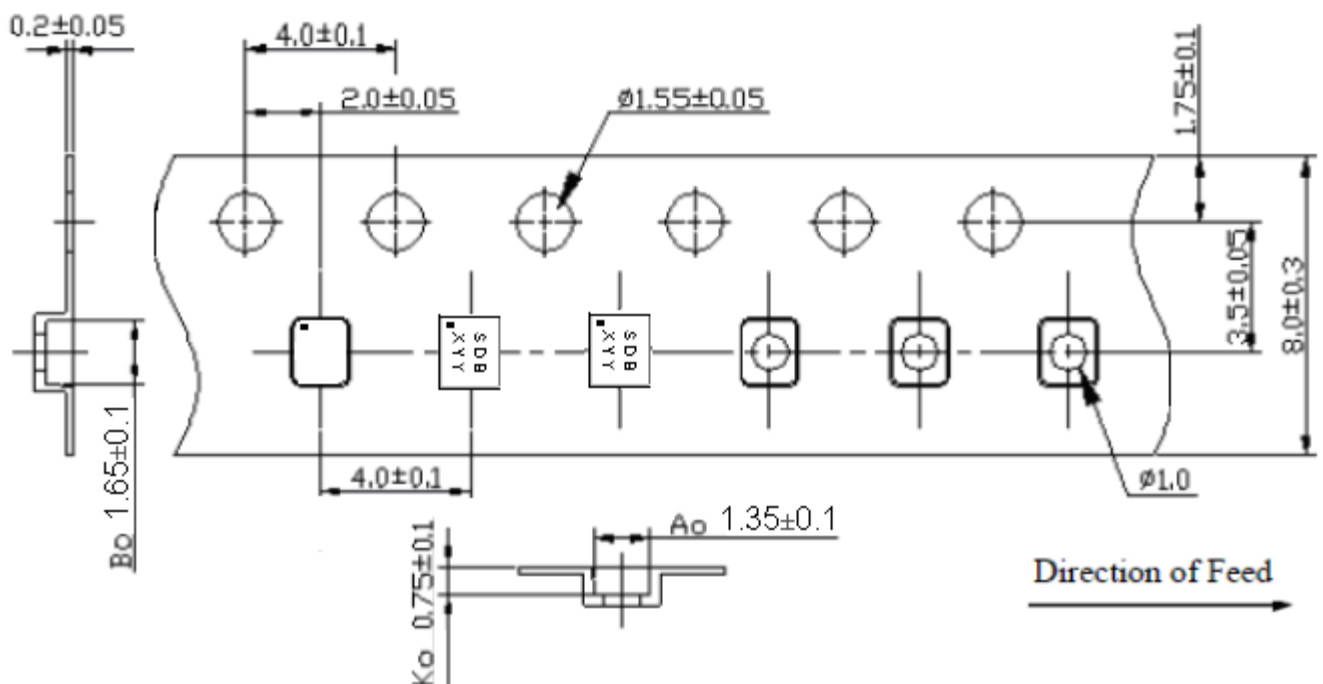
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°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: 3 times.

