TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Rx Filter 942.5MHz LTE Band 8 SMD 1411

TST Part No.: TA1726B (This part is compliant with AEC-Q200)

Customer Part No.:_____

Customer signature required

Company:_____

Division: _____

Approved by : _____

Date: _____

Checked by: Anne Chen

Approved by: Bob Chau

Date: 2017/07/06

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 942.5MHz LTE Band 8 SMD 1411 (30.2MHz BW)

MODEL NO.: TA1726B REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

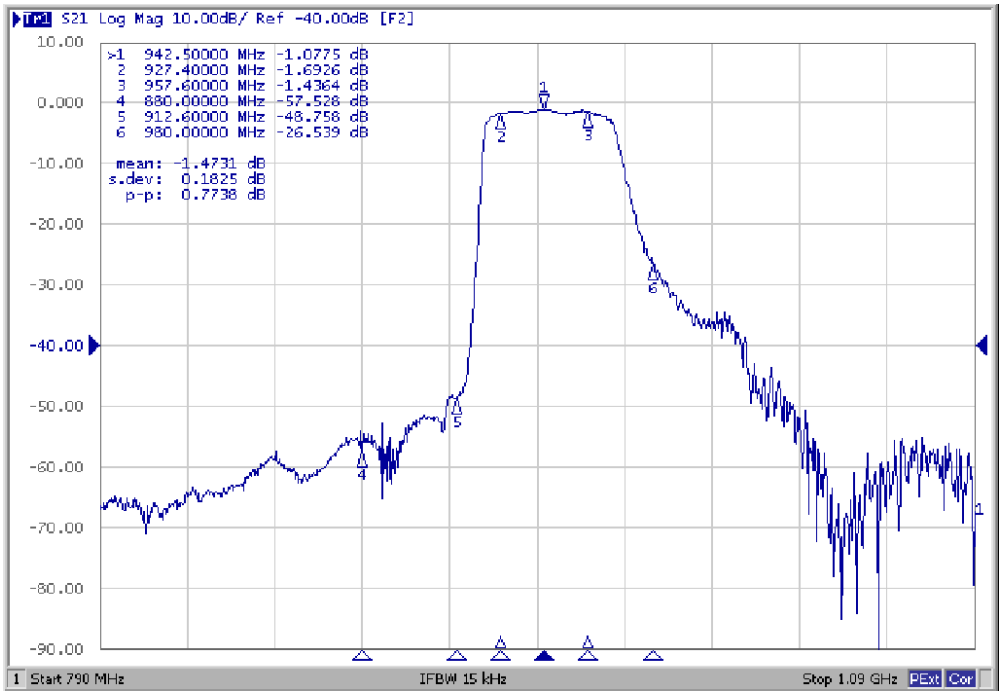
Terminating source impedance: Zs = 50 Ω (Single)
Terminating load impedance: Z_L = 50 Ω(Single)

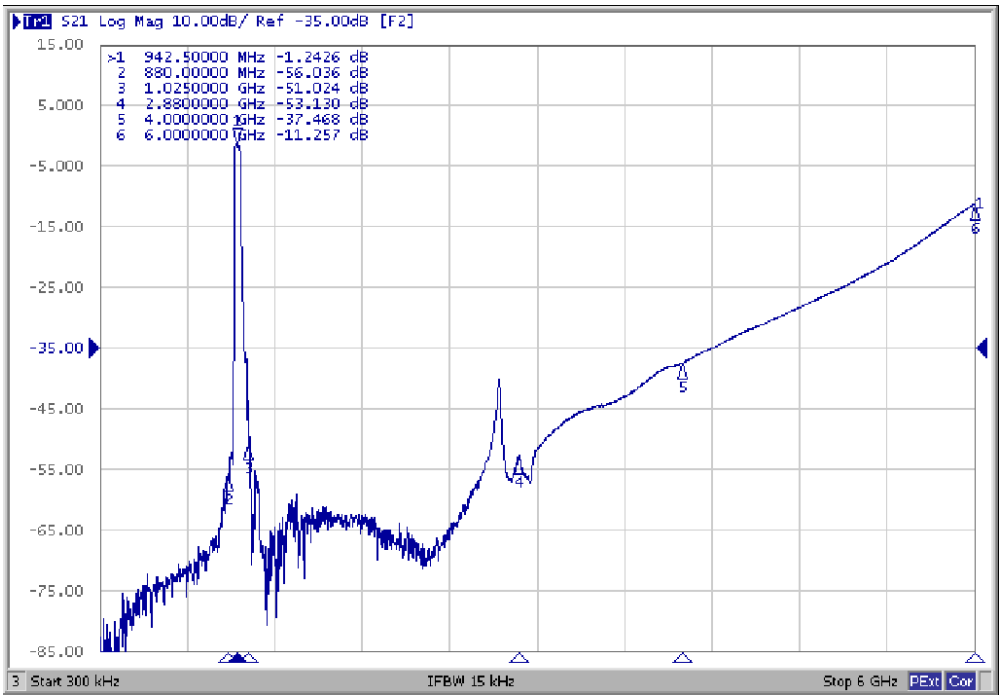
Parameters Description		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	942.5	-
Insertion Loss	927.4 ~ 957.6 MHz	dB	-	1.9	2.5
Amplitude Ripple	927.4 ~ 957.6 MHz	dB_{p-p}	-	0.8	1.5
VSWR (Input)	927.4 ~ 957.6 MHz	-	-	2.0	2.5
VSWR (Output)	927.4 ~ 957.6 MHz	-	-	2.0	2.5
Attenuation:					
DC ~ 880.0 MHz		dB	50	62	-
880.0~912.6 MHz		dB	46	53	-
980.0~1025.0 MHz		dB	22	26	-
1025.0~2880.0 MHz		dB	33	42	-
2880.0~4000.0 MHz		dB	34	46	-
4000.0~6000.0 MHz		dB	8	19	-

Notes: (1) No Matching Network.

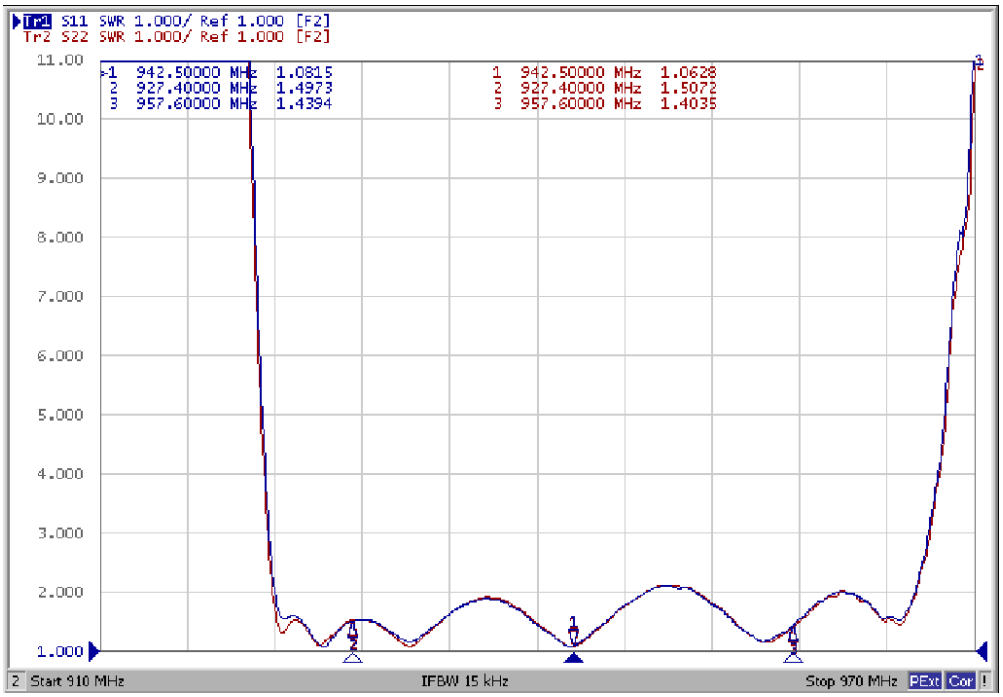
C. FREQUENCY CHARACTERISTICS:

Frequency Response

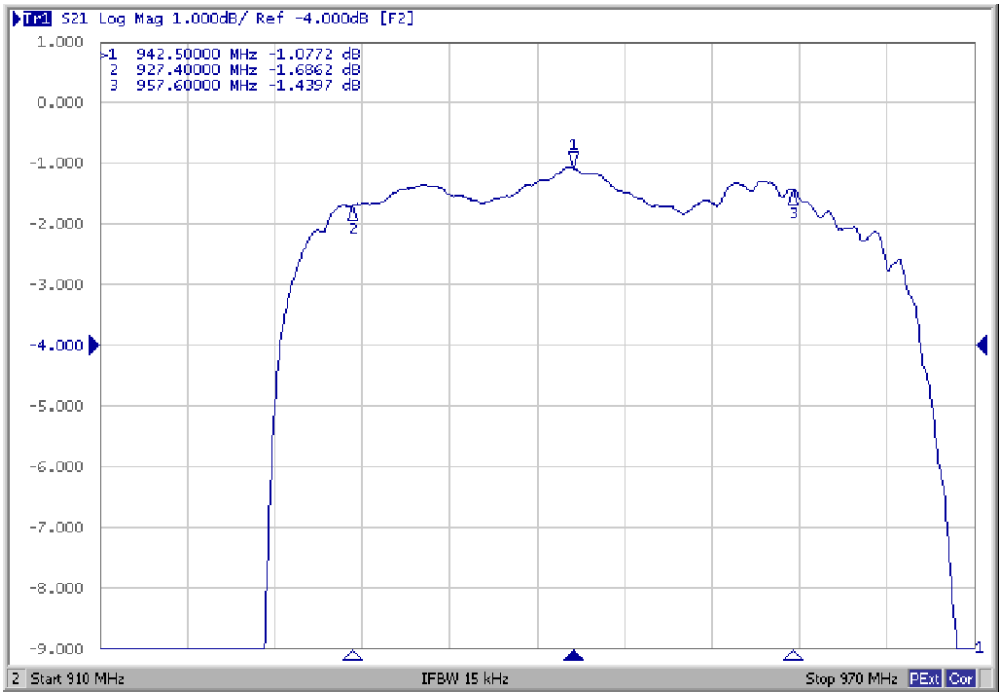




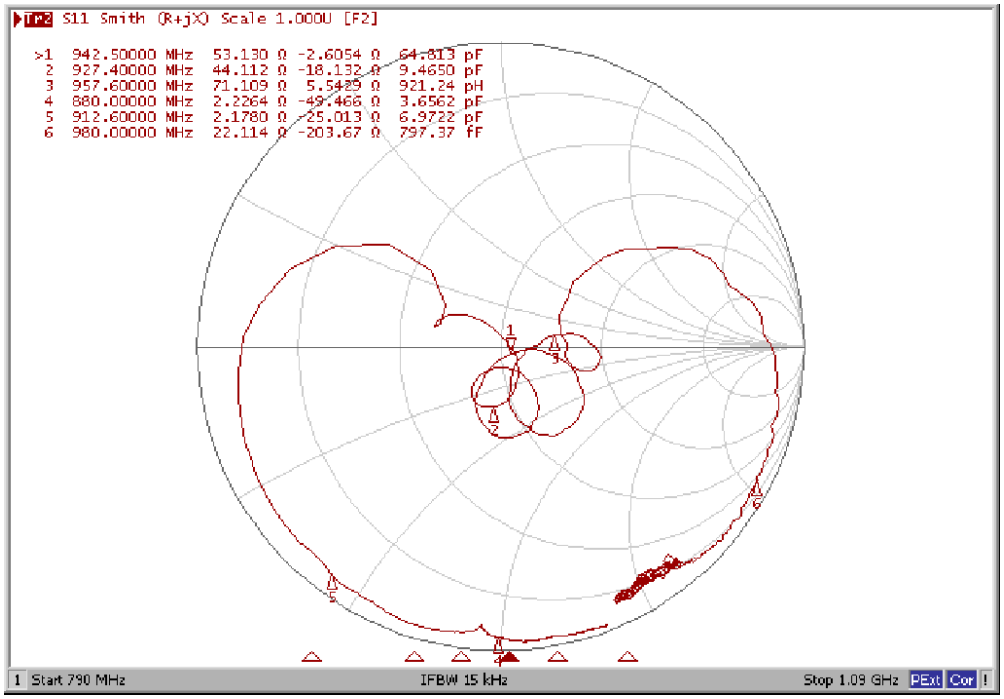
VSWR

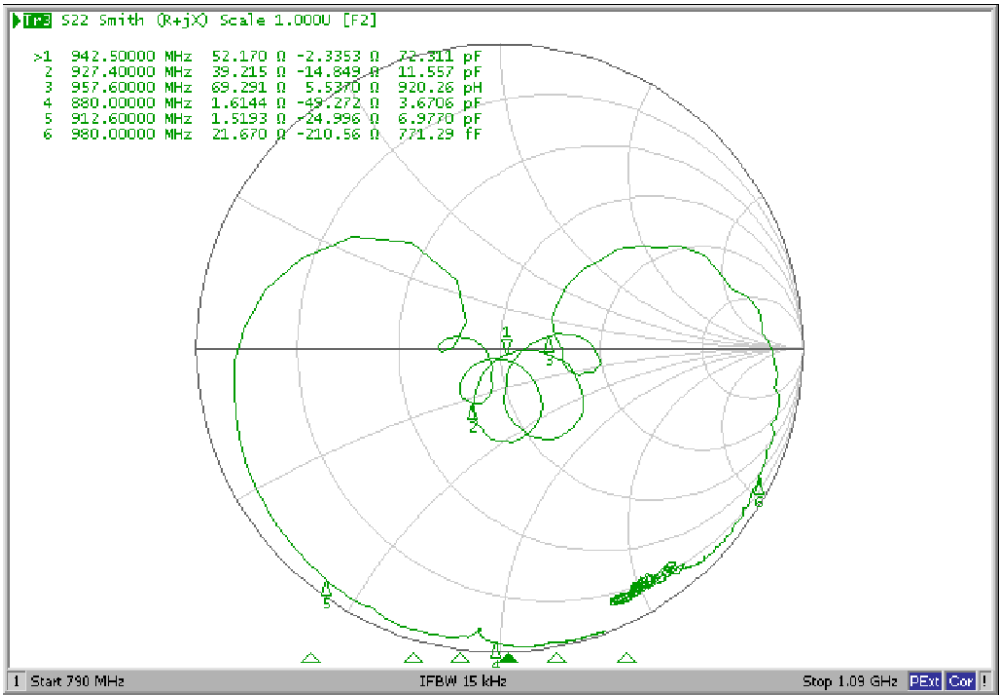

Tr1 S11 SWR 1.000/ Ref 1.000 [F2]
Tr2 S22 SWR 1.000/ Ref 1.000 [F2]
>1 942.50000 MHz 1.0815
2 927.40000 MHz 1.4973
3 957.60000 MHz 1.4394
1 942.50000 MHz 1.0628
2 927.40000 MHz 1.5072
3 957.60000 MHz 1.4035
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
2 Start 910 MHz
IFBW 15 kHz
Stop 970 MHz
PExt
Cor

Ripple

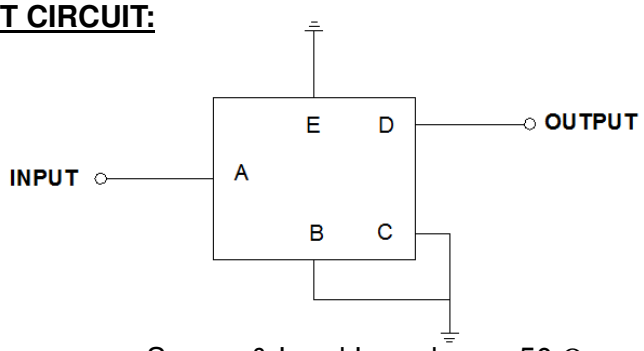

Tr1 S21 Log Mag 1.000dB/ Ref -4.000dB [F2]
>1 942.50000 MHz -1.0772 dB
2 927.40000 MHz -1.6862 dB
3 957.60000 MHz -1.4397 dB
1.000
0.000
-1.000
-2.000
-3.000
-4.000
-5.000
-6.000
-7.000
-8.000
-9.000
2 Start 910 MHz
IFBW 15 kHz
Stop 970 MHz
PExt
Cor

Smith Chart


Tr2 S11 Smith (R+jX) Scale 1.000U [F2]
>1 942.50000 MHz 53.130 Ω -2.6054 Ω 64.813 pF
2 927.40000 MHz 44.112 Ω -18.132 Ω 9.4650 pF
3 957.60000 MHz 71.109 Ω 5.5429 Ω 921.24 pH
4 880.00000 MHz 2.2264 Ω -49.466 Ω 3.6562 pF
5 912.60000 MHz 2.1780 Ω -25.013 Ω 6.9722 pF
6 980.00000 MHz 22.114 Ω -203.67 Ω 797.37 fF
1 Start 790 MHz
IFBW 15 kHz
Stop 1.09 GHz
PExt
Cor

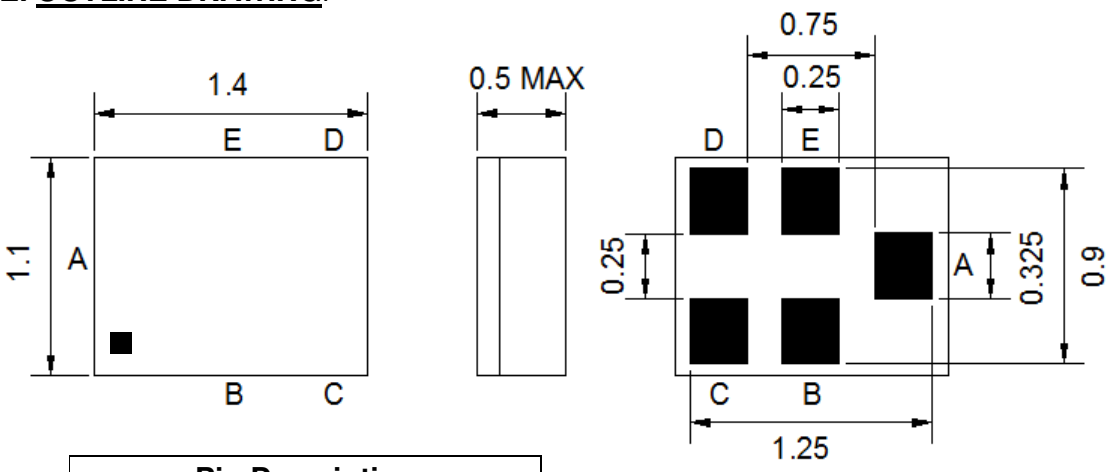

Tr3 S22 Smith (R+jX) Scale 1.000U [F2]
>1 942.50000 MHz 52.170 Ω -2.3353 Ω 72.311 pF
2 927.40000 MHz 39.215 Ω -14.849 Ω 11.557 pF
3 957.60000 MHz 69.291 Ω 5.5370 Ω 920.26 pH
4 880.00000 MHz 1.6144 Ω -49.272 Ω 3.6706 pF
5 912.60000 MHz 1.5193 Ω -24.996 Ω 6.9770 pF
6 980.00000 MHz 21.670 Ω -210.56 Ω 771.29 fF
1 Start 790 MHz
IFBW 15 kHz
Stop 1.09 GHz
PExt
Cor

D. MEASUREMENT CIRCUIT:



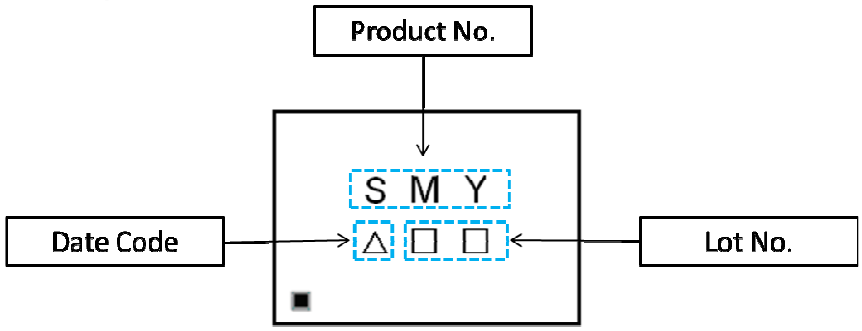
Source & Load Impedance: 50 Ω

E. OUTLINE DRAWING:



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

Top View (Pilot Run):



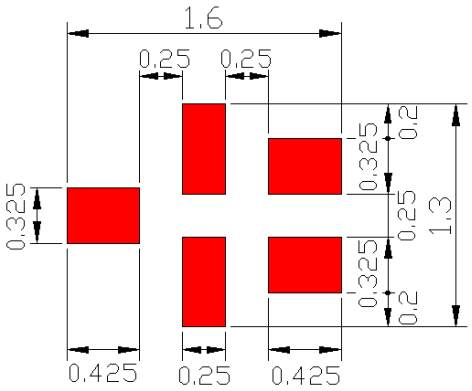
△ : **Date Code**

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

Product date Code (EIAJ)

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	∇	W	X	Y	Z

PCB Footprint：



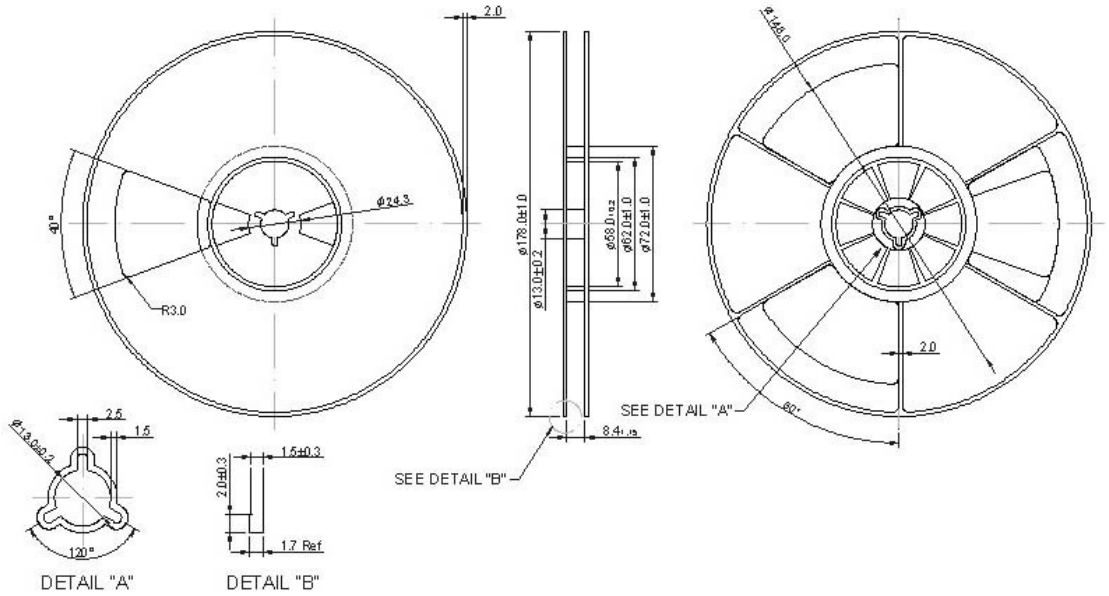
: Land Pattern

Unit: mm

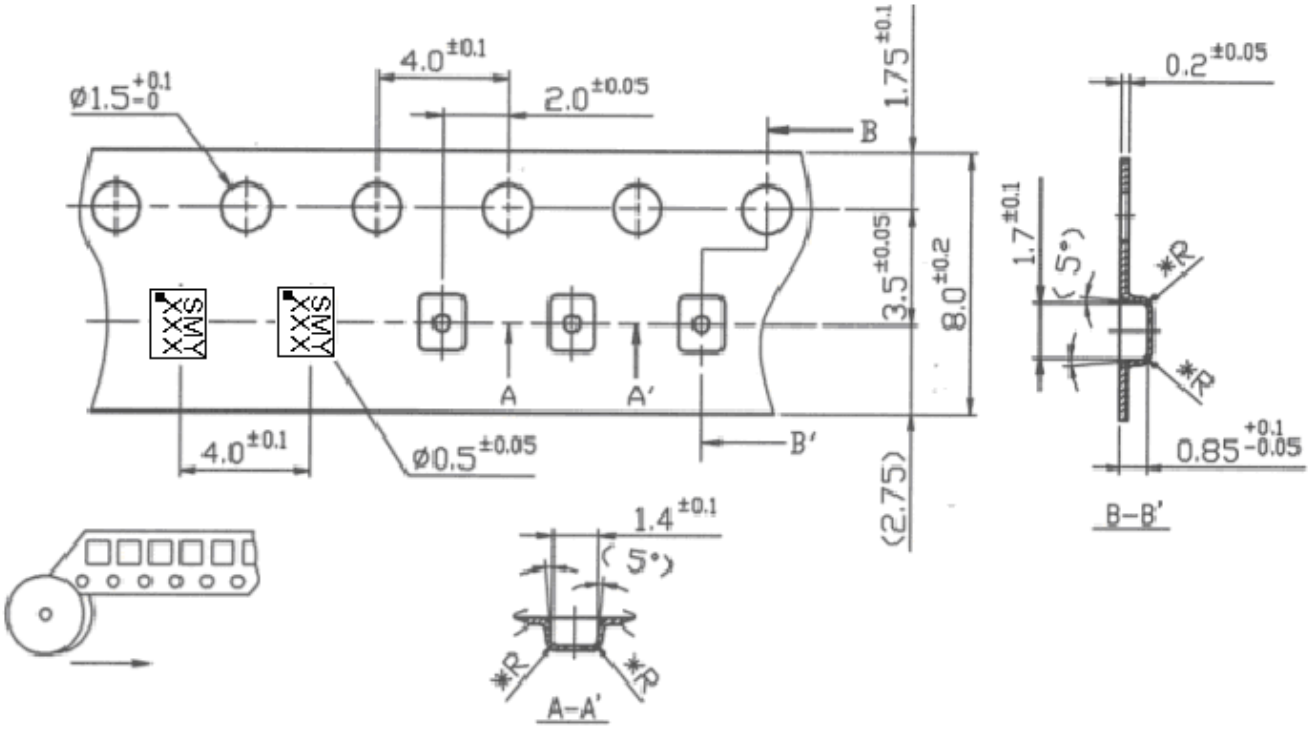
F. PACKING:

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℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.