



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 876.5 MHz Band 26 Rx SMD 1.1X0.9 mm (BW=35 MHz)

TST Part No.: TA2069A

Customer Part No.: _____

—

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

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 11, 07, 2016

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 Filter 876.5 MHz Band 26Rx SMD 1.1X0.9 mm (BW=35 MHz)

MODEL NO.:TA2069A

REV.1.0

A. MAXIMUM RATING:

1. Operating temperature range: -30 °C to +85 °C
2. Storage temperature range: -30 °C to +85 °C
3. Input power : 10dBm
4. Maximum DC Voltage: +/-3 V
5. Moisture Sensitivity Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

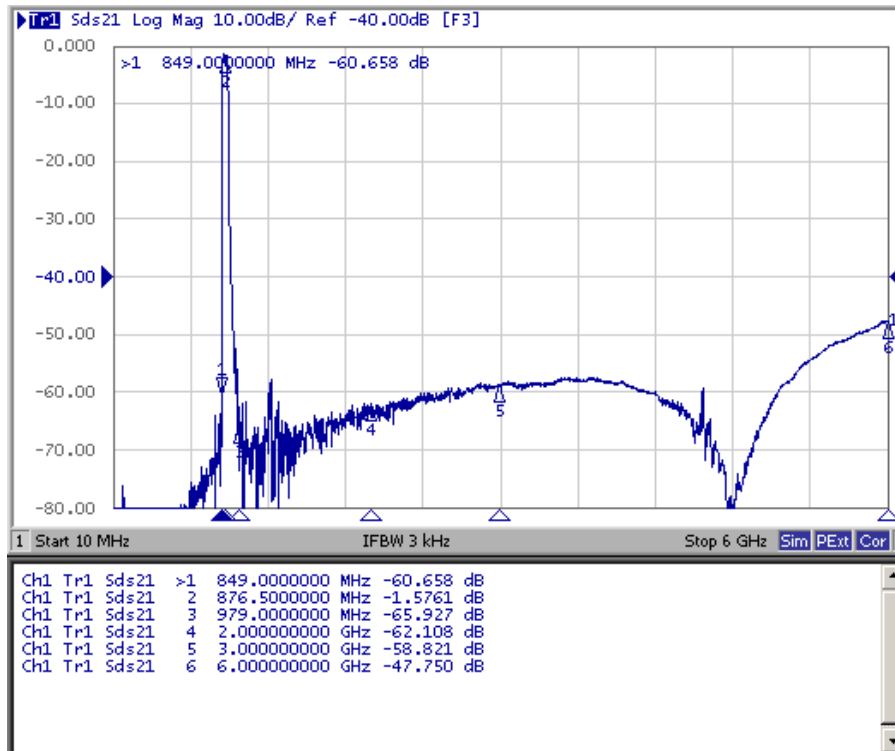
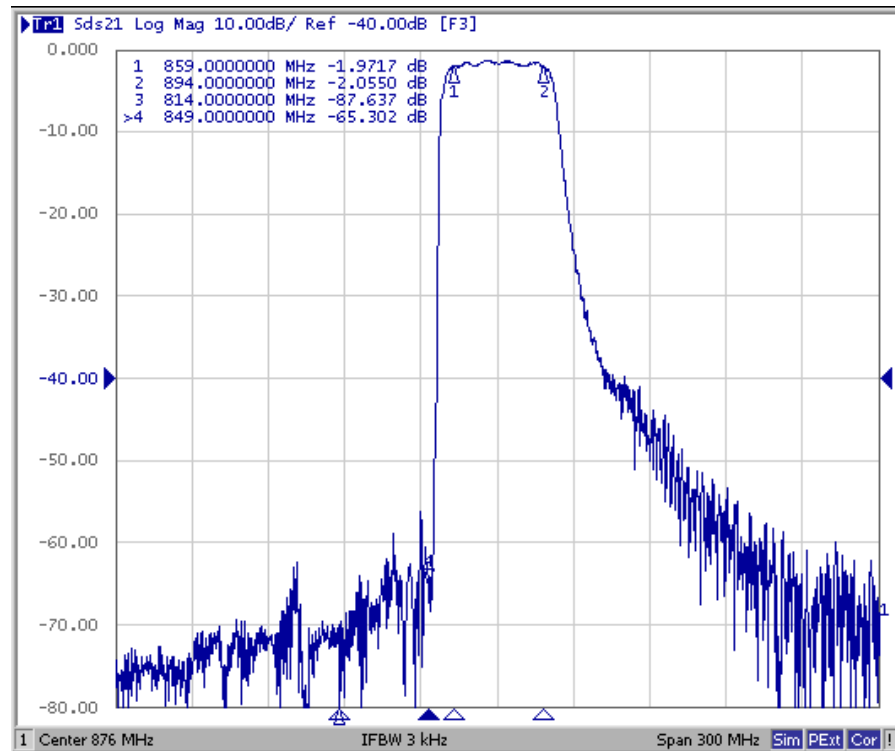
Terminating source impedance: $Z_s = 50 \Omega$ (Unbalanced)

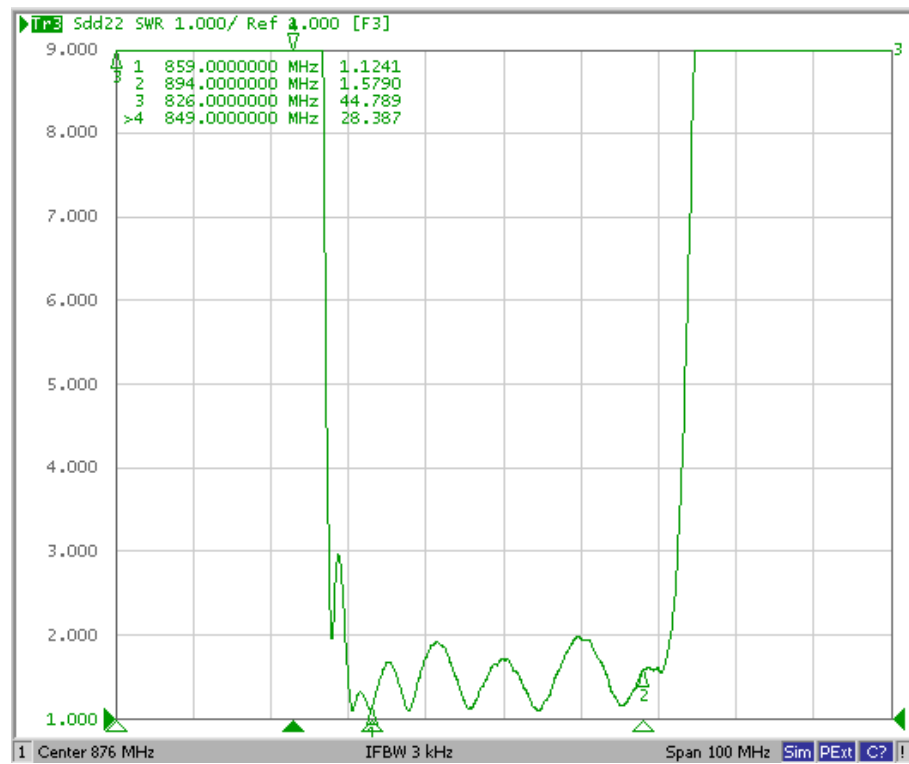
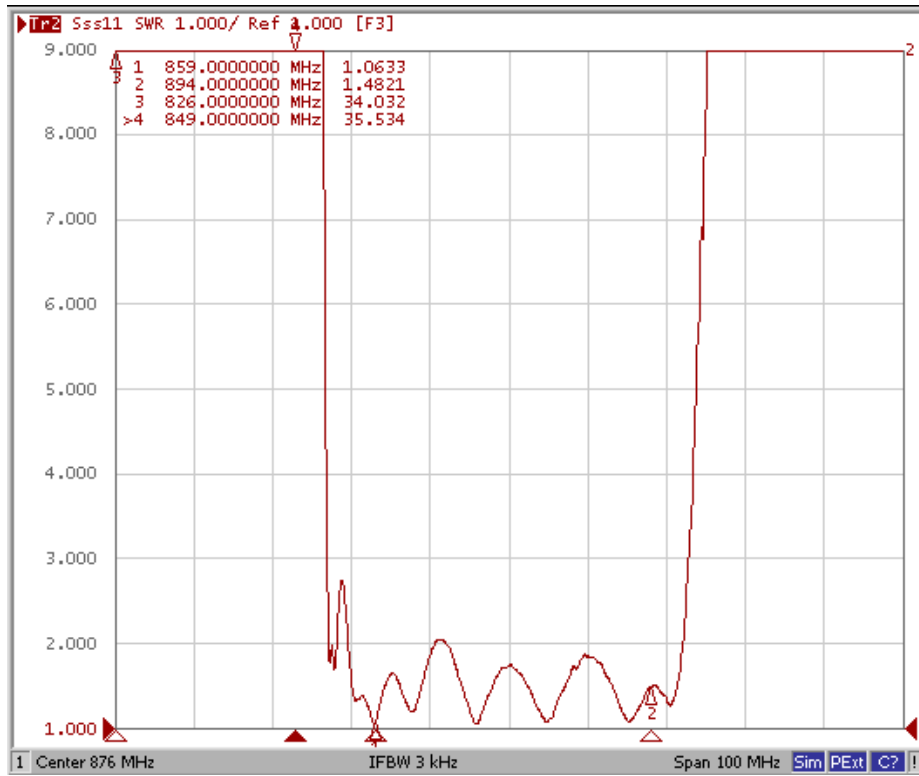
Terminating load impedance: $Z_L = 100 \Omega$ (Balanced)

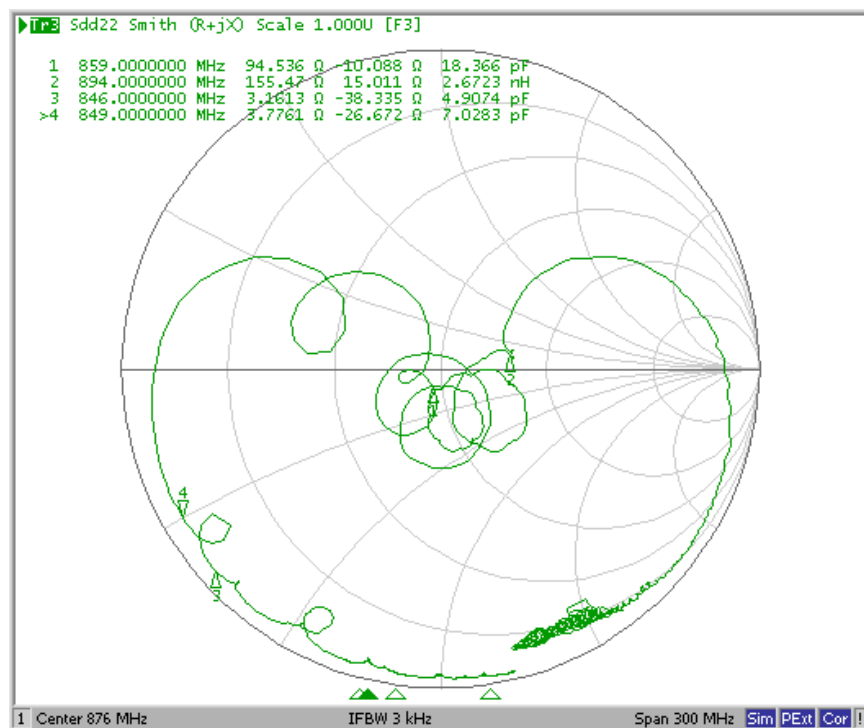
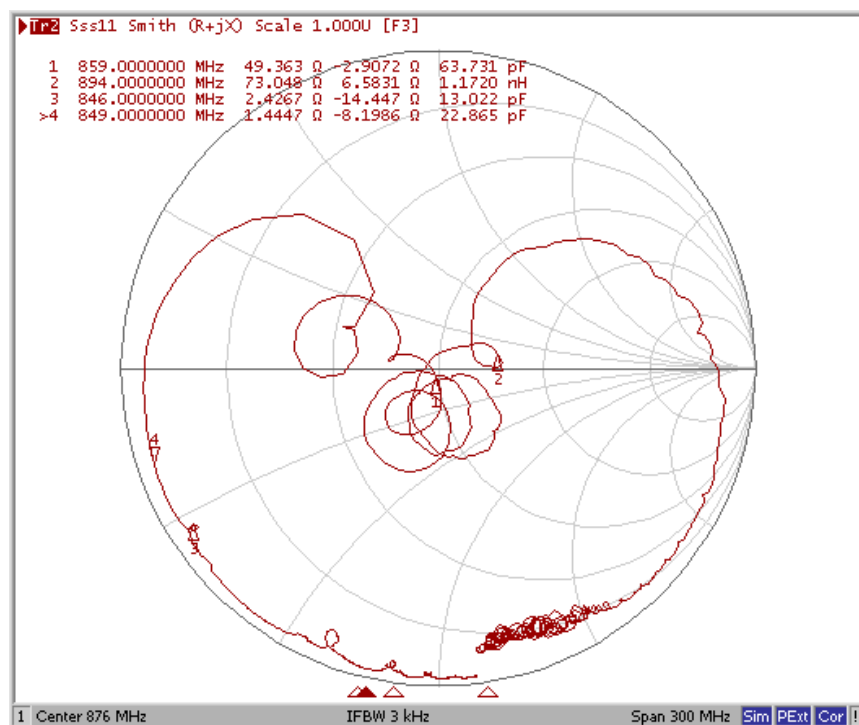
Parameters Description		Unit	Min	Typ	Max	Remarks	
Insertion Loss		859~ 894MHz	dB(*1)	-	2.2	3.3	
Amplitude ripple		859~ 894MHz	dB	-	0.8	2.1	
VSWR	Input	859~ 894MHz	-	-	1.9	2.3	
	Output	859~ 894MHz	-	-	1.8	2.3	
Amplitude balance (S21 / S31)		859~ 894MHz	dB	-1.2	-0.6~+0.1	+1.2	-
Phase balance ((ΦS21-ΦS31)+180)		859~ 894MHz	deg.	-10	-3.0~+2.0	+10	-
Attenuation:							
10~ 814 MHz			dB	40	64	-	
814 ~ 849 MHz			dB	46	59	-	
979 ~ 2000 MHz			dB	40	56	-	
2000 ~ 3000 MHz			dB	35	52	-	
3000 ~ 6000 MHz			dB	30	42	-	

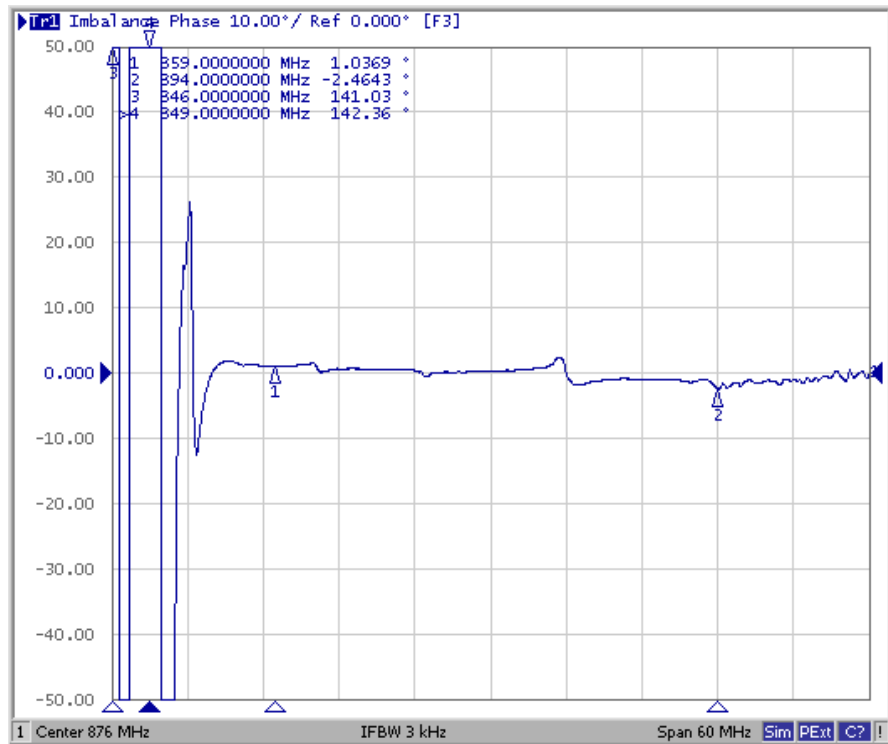
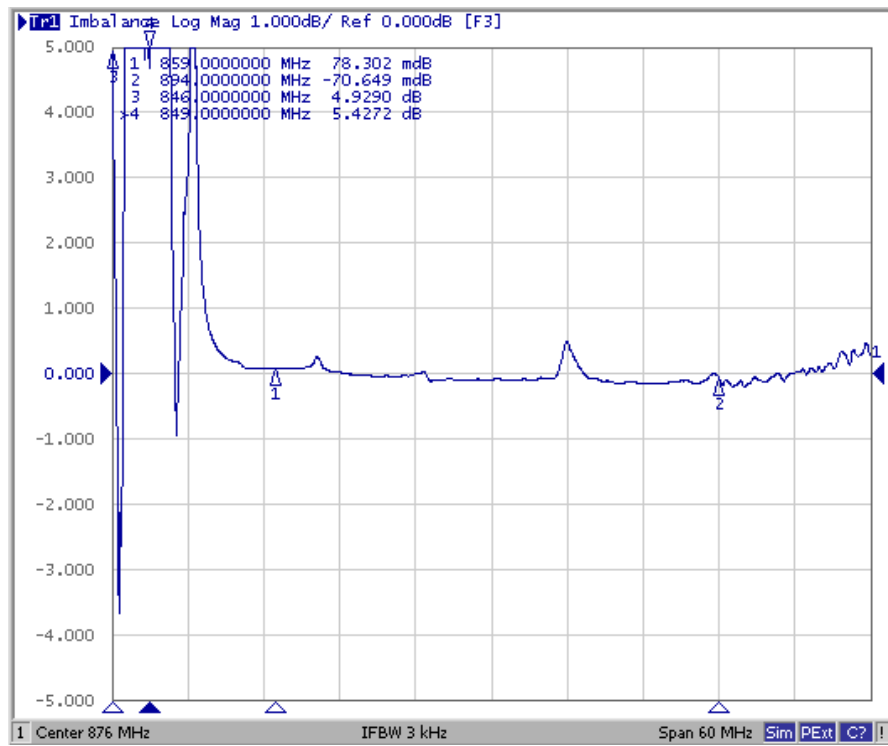
(*1) Specification of insertion loss includes loss that comes from the test board.(0.05dB) .

C. FREQUENCY CHARACTERISTICS:

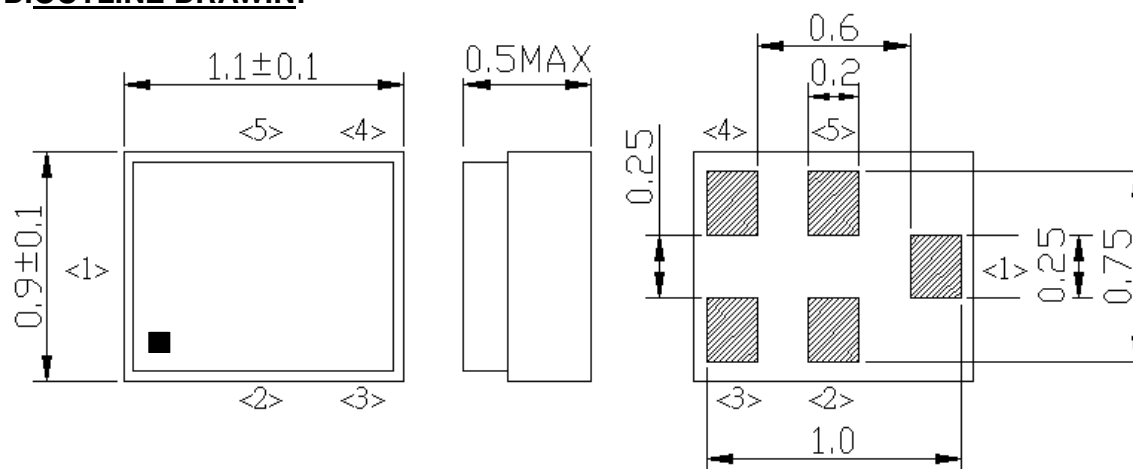








D.OUTLINE DRAWIN:



Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced Pin
4	OUT	Balanced Pin
5	GND	Ground

Top View (Sample Production):



Top View (Mass Production):



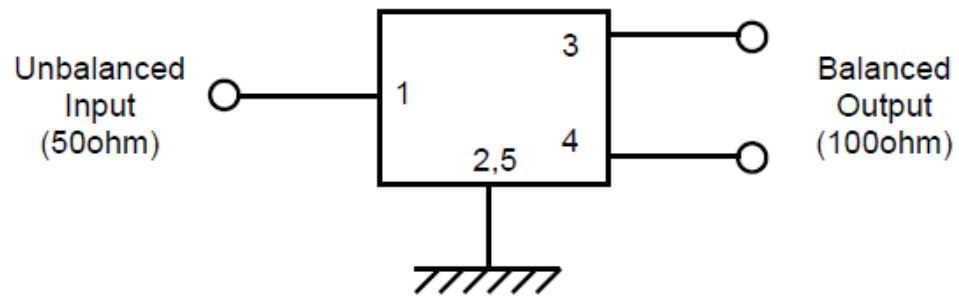
$\triangle$: Date Code

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

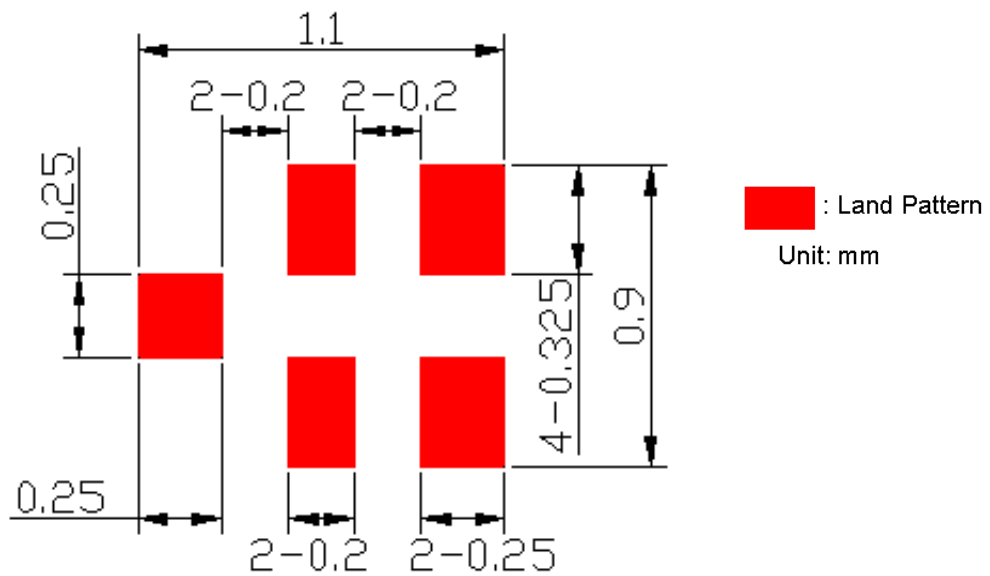
Date Code:

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.Evaluation Circuit



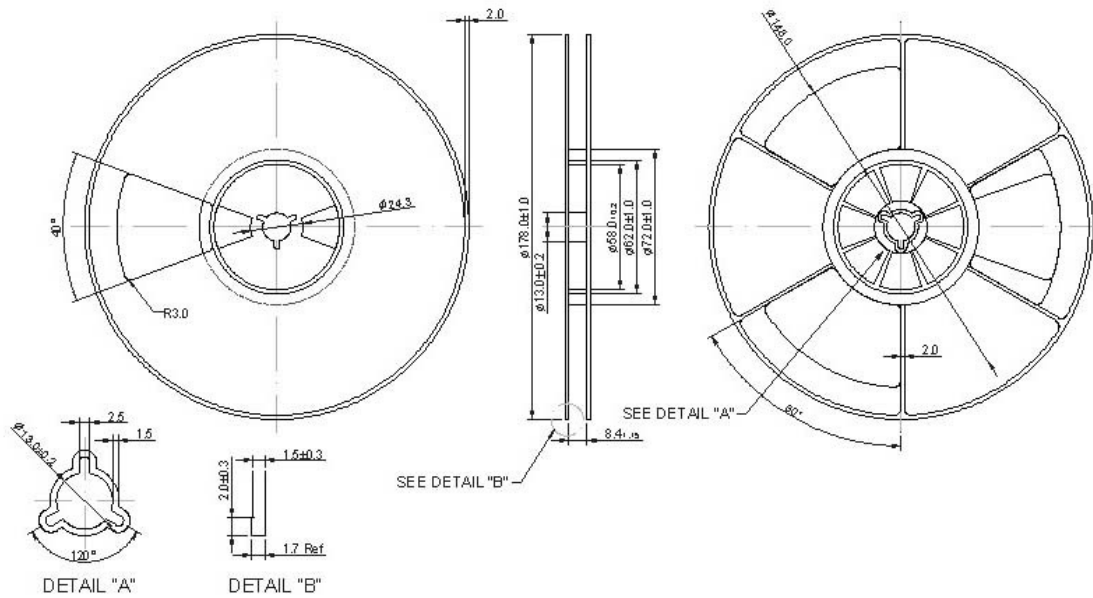
F. PCB Footprint :



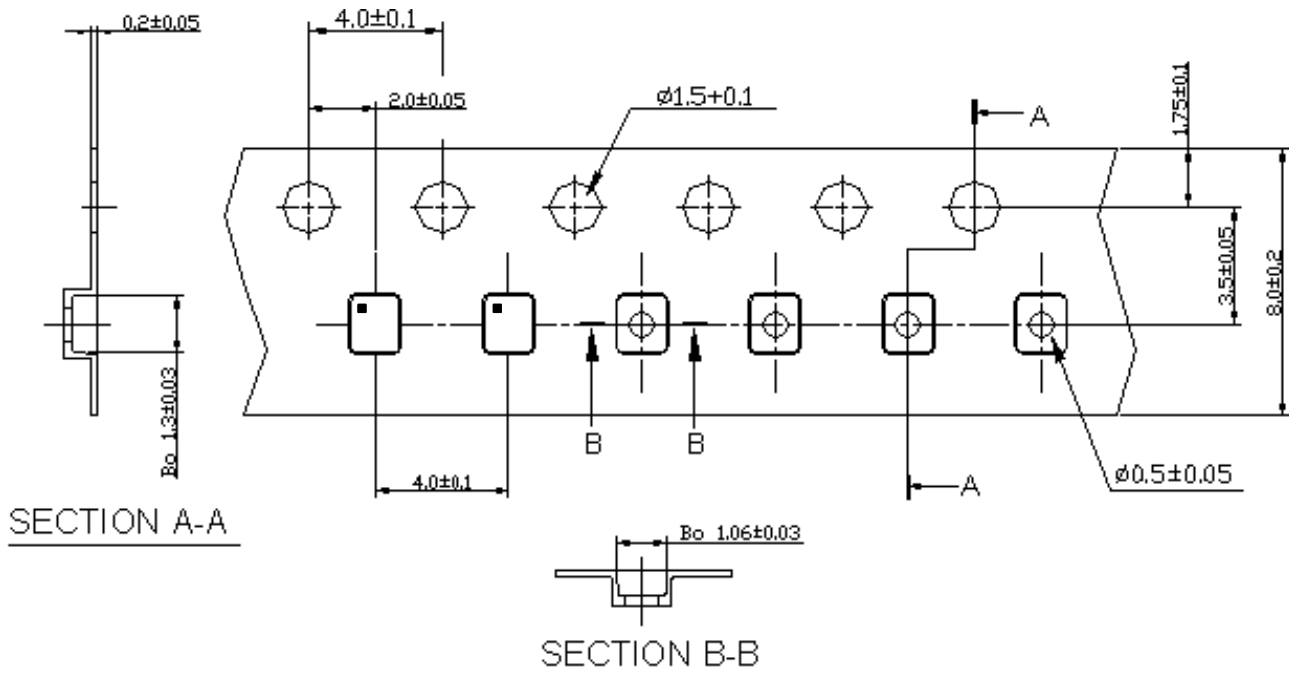
G. PACKING:

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 245~260°C peak (min. 10sec).
4. Time : 2 times.

