



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Rx Filter 881.5MHz LTE Band 5 SMD 1109

TST Parts No.: TA1690A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu 

Approved by: _____ Bob Chau 

Date: _____ 2017, 04. 05

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 Rx Filter 881.5MHz LTE Band 5 SMD 1109 (25MHz BW)

MODEL NO.: TA1690A

REV. No.: 2

A. MAXIMUM RATING:

1. Maximum Input Power: 29 dBm
2. DC voltage: 0 V
3. Operating Temperature: -30 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 1
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

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

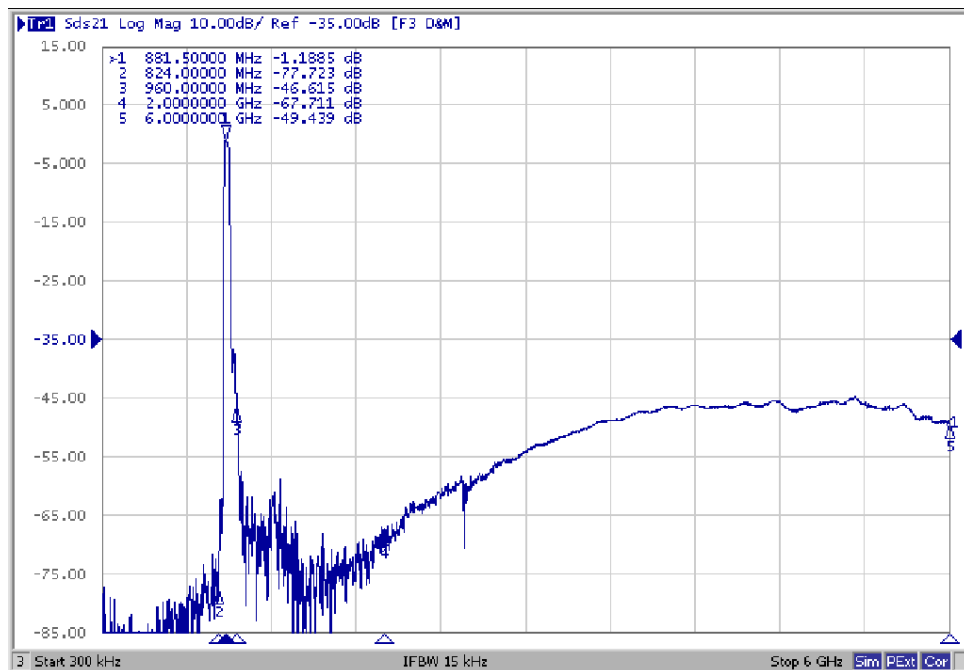
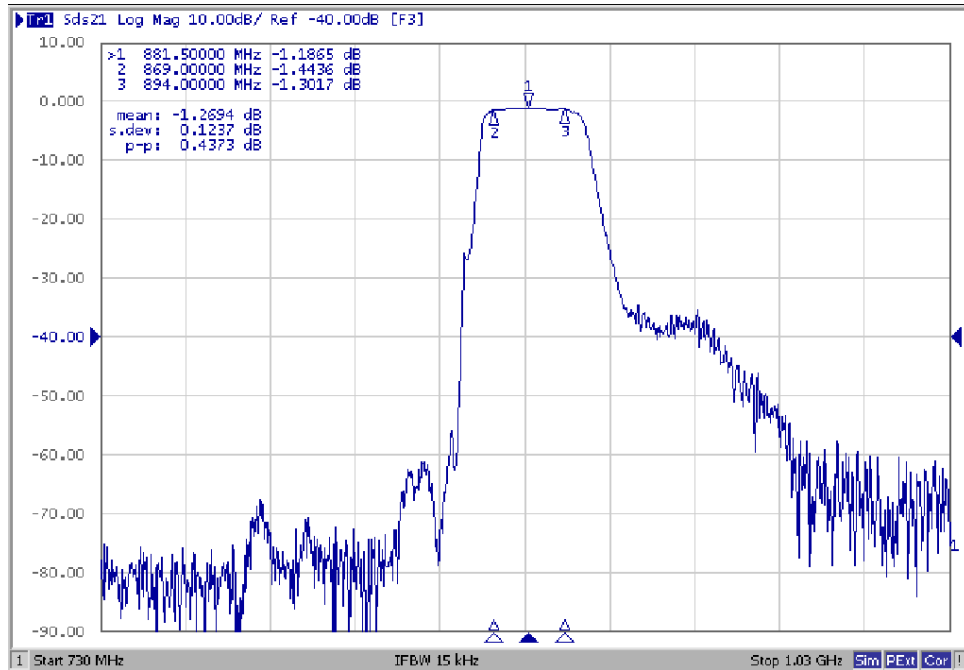
Terminating load impedance: $Z_L = 100 \Omega$ (Balanced / differential)

Parameters Description		Unit	Min	Typ	Max	Remarks
Center Frequency (Fo)		MHz		881.5		
Insertion Loss	869.0 ~ 894.0MHz	dB(*1)	-	1.5	2.0	
Amplitude ripple	869.0 ~ 894.0MHz	dB _{p-p}	-	0.5	1.0	
VSWR	869.0 ~ 894.0MHz			1.6	2.0	
Attenuation:						
DC ~ 824.0 MHz		dB	50	65	-	
824.0 ~ 849.0 MHz		dB	50	56	-	
914.0 ~ 960.0 MHz		dB	25	35	-	
960.0 ~ 2000.0 MHz		dB	40	50	-	
2000.0 ~ 6000.0 MHz		dB	30	43	-	

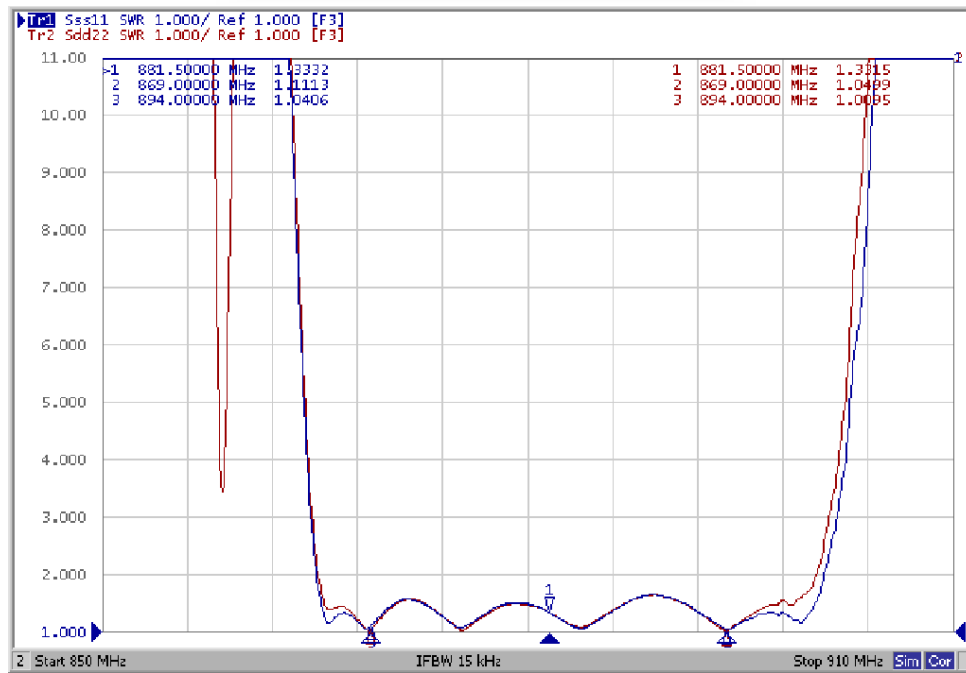
Notes : (1) No Matching Network .

C. Frequency Characteristics :

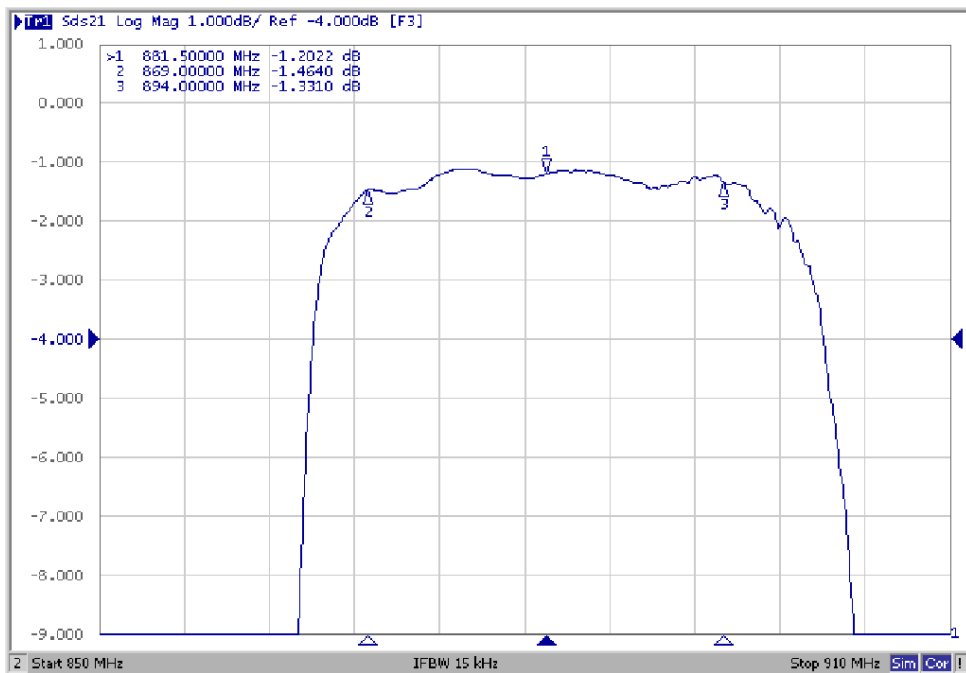
Frequency Response



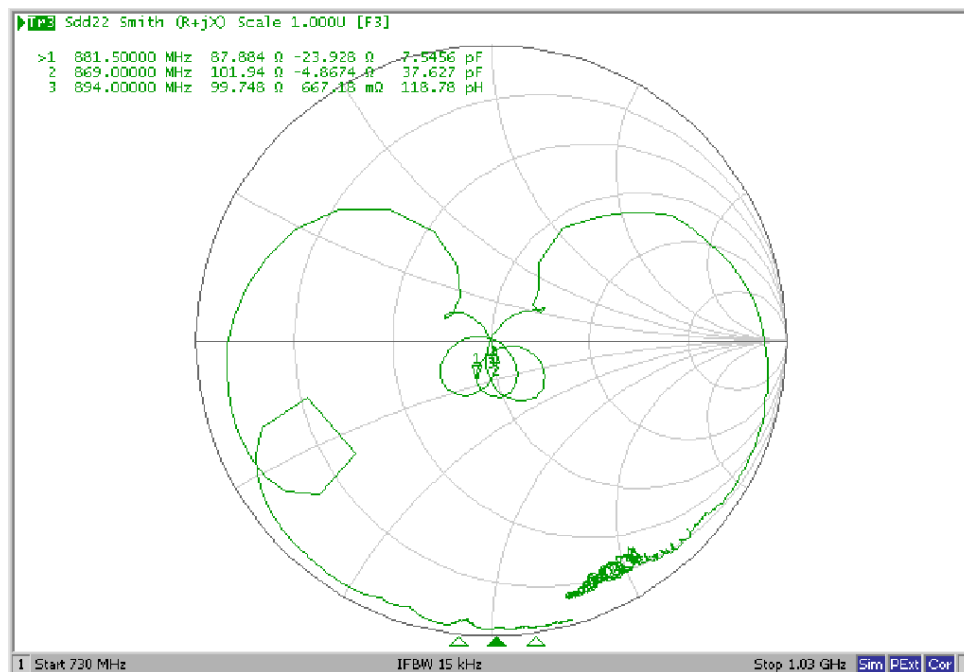
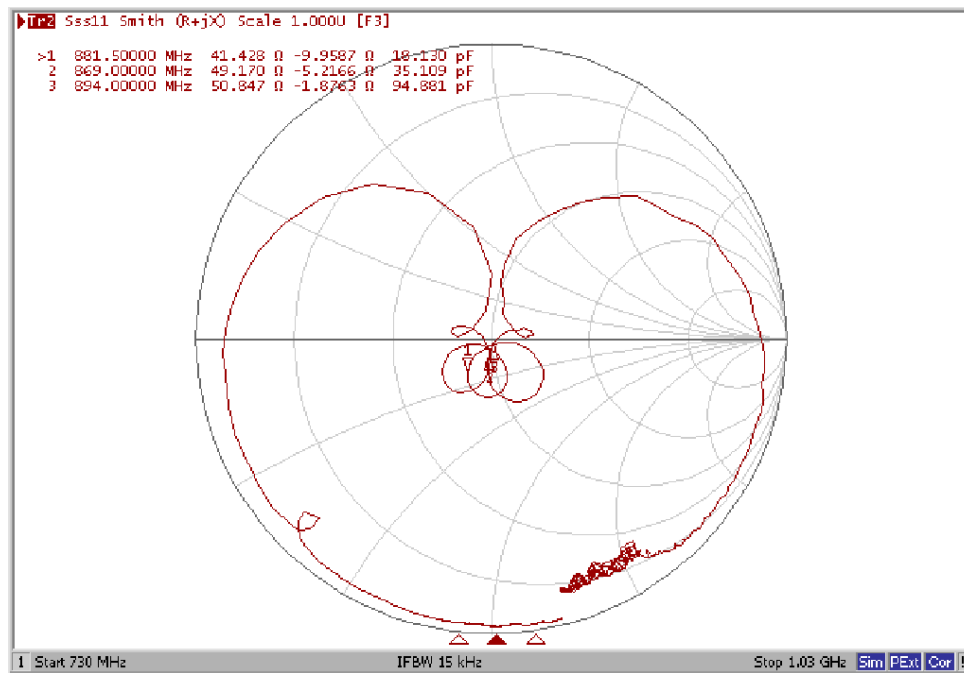
VSWR



Ripple



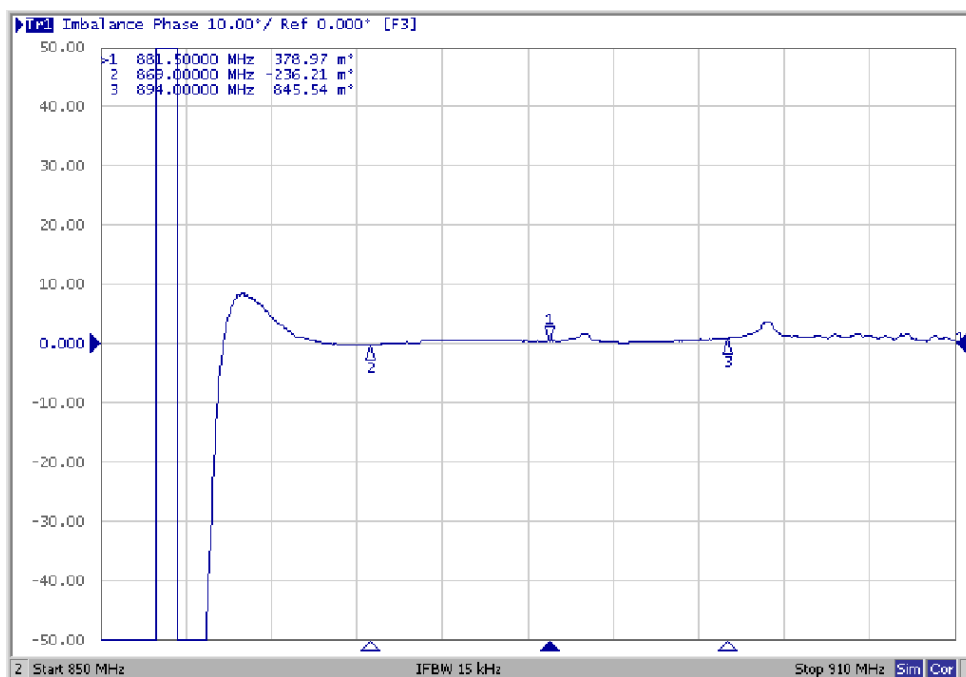
Smith Chart



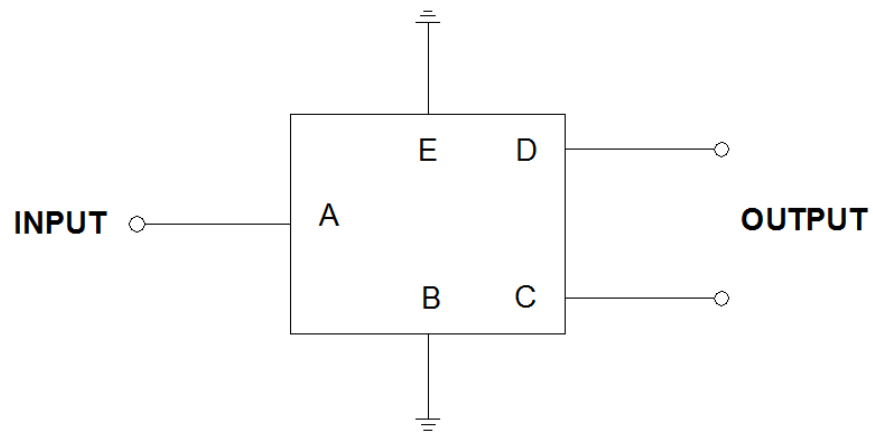
Amplitude balance



Phase balance



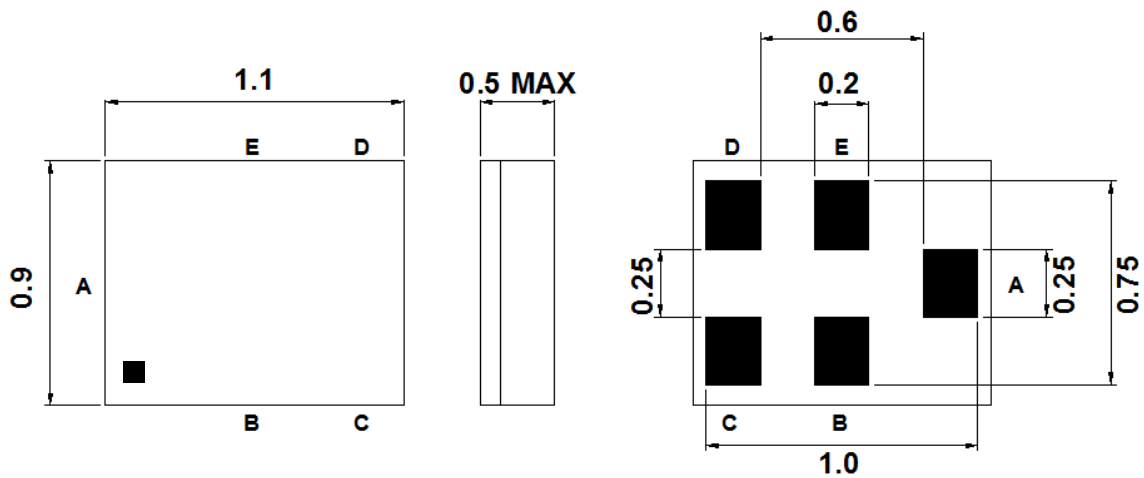
D. MEASUREMENT CIRCUIT:



Source Impedance: 50 Ω

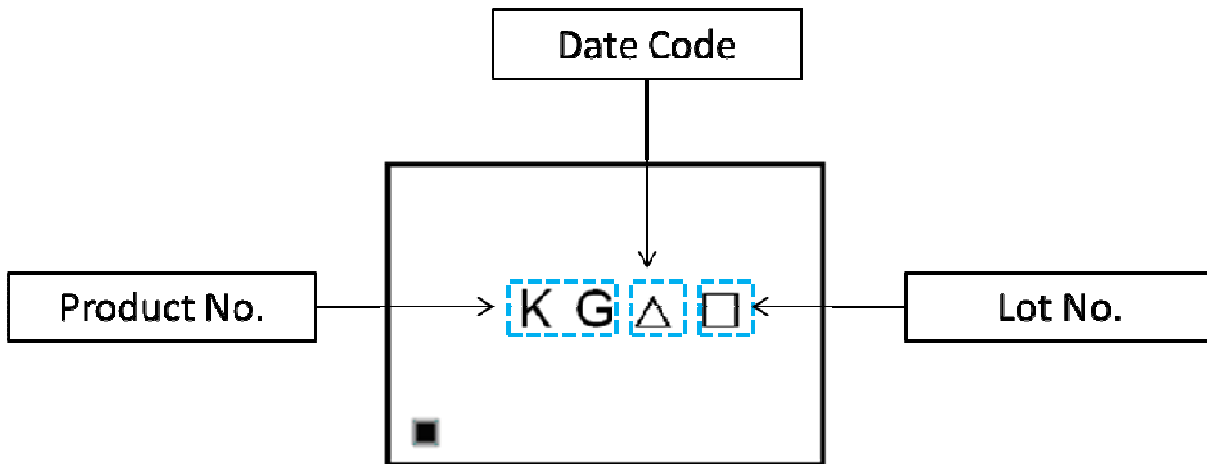
Load Impedance: 100 Ω

E. OUTLINE DRAWING:

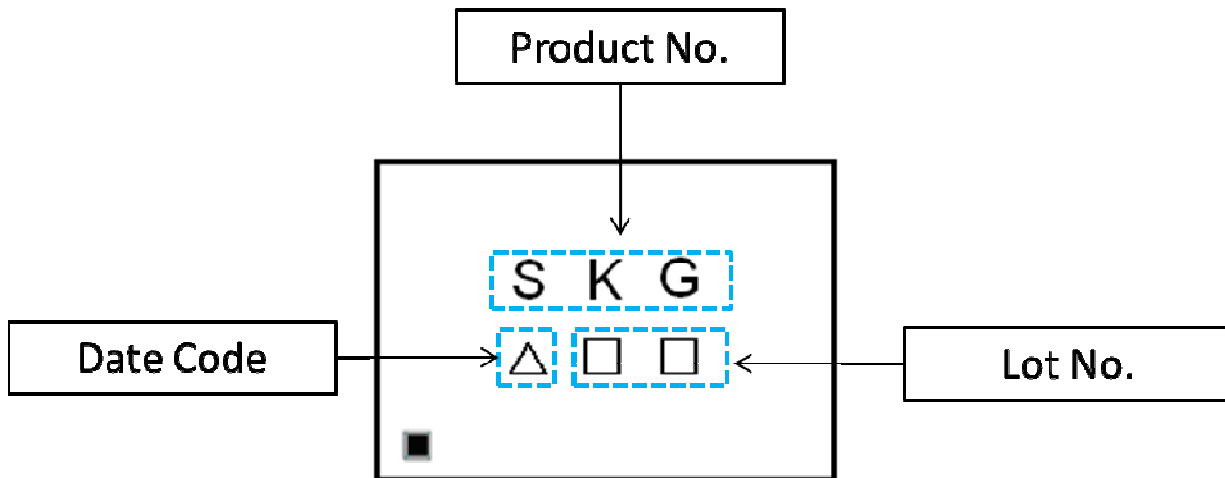


Pin Description	
B, E	Ground
A	Input
C, D	Balanced Output

Top View (Sample Run):



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)

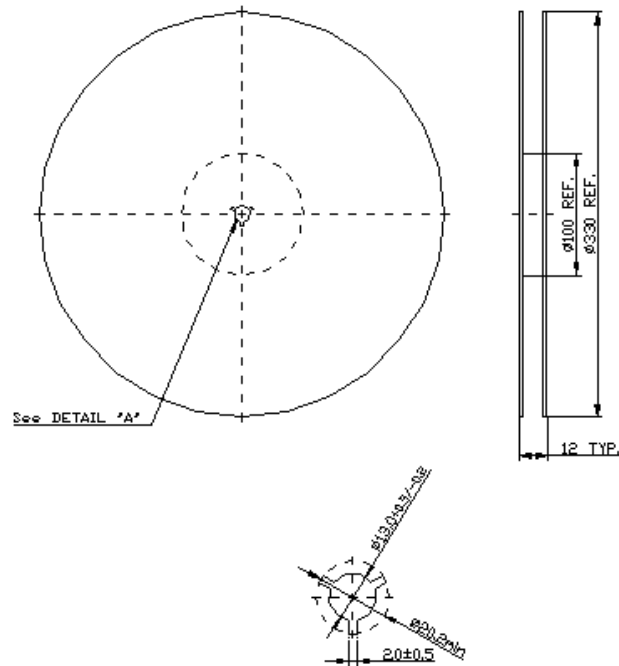
Product date Code (EIAJ)

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	V	W	X	Y	Z

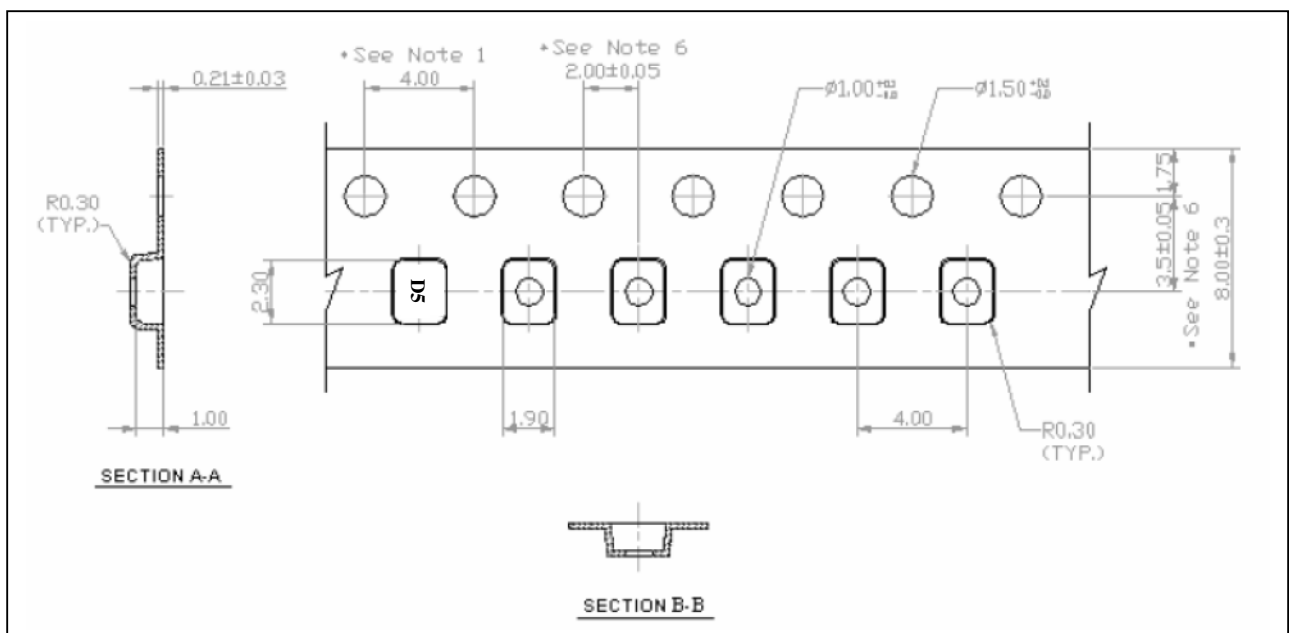
E. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



F. 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.

