



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

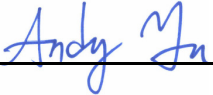
Product Description: SAW Rx Filter 737.5MHz LTE Band 12 SMD 1109

TST Part No.: TA2037B (This part is compliant with AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2018 . 11 . 30

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 737.5MHz LTE Band 12 SMD 1109 (17MHz BW)

MODEL NO.:TA2037B

REV.1

A. MAXIMUM RATING:

1. Operating temperature range: -40 °C to +85 °C
2. Storage temperature range: -55 °C to +125 °C
3. Input power : 15dBm
4. Maximum DC Voltage: +/-3 V
5. Moisture Sensitivity Level: Level 3 (MSL 3)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

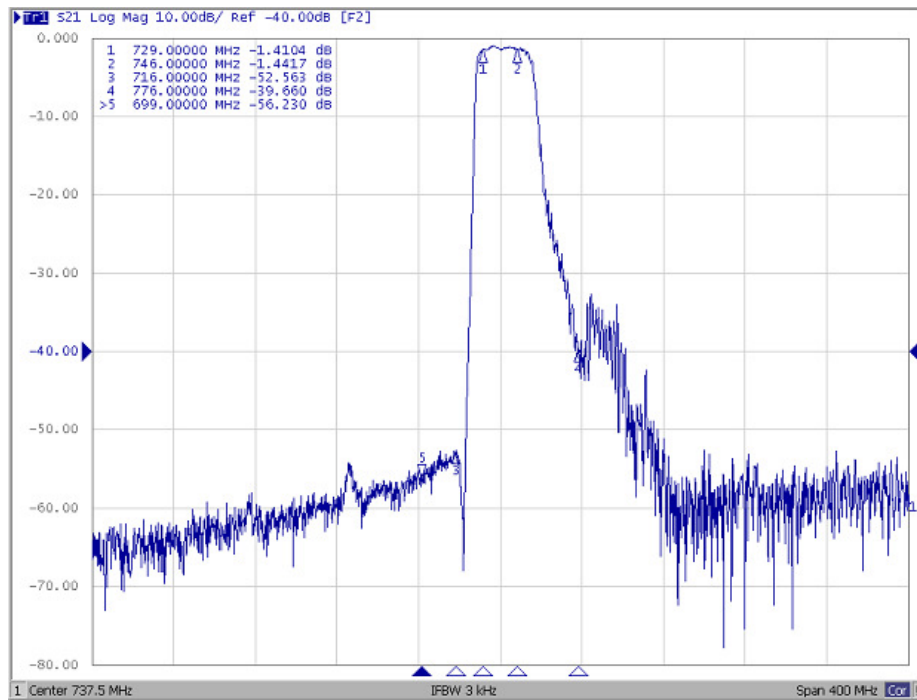
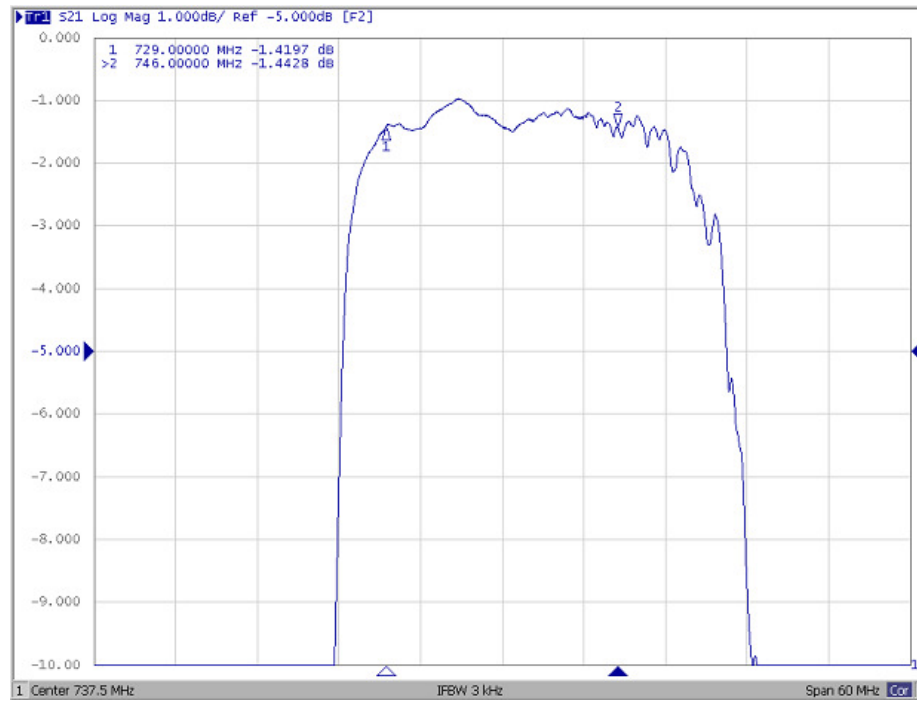
Terminating source impedance : $Z_s = 50 \Omega$

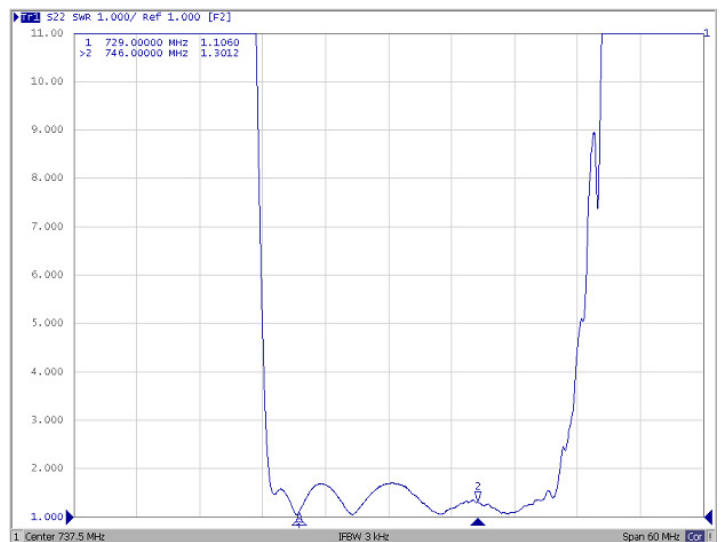
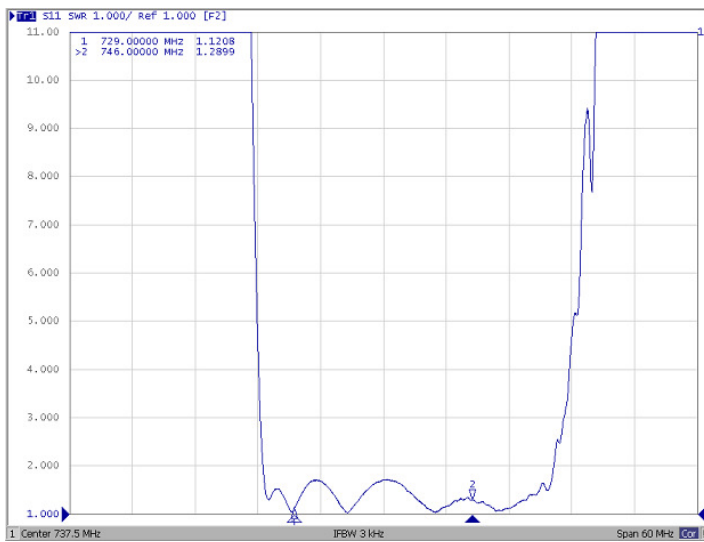
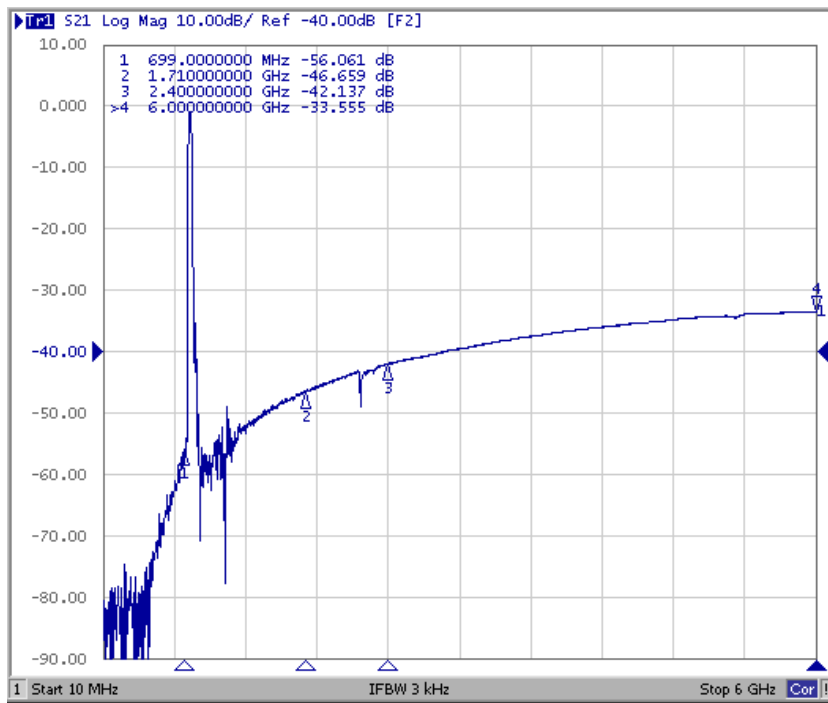
Terminating load impedance : $Z_L = 50 \Omega$

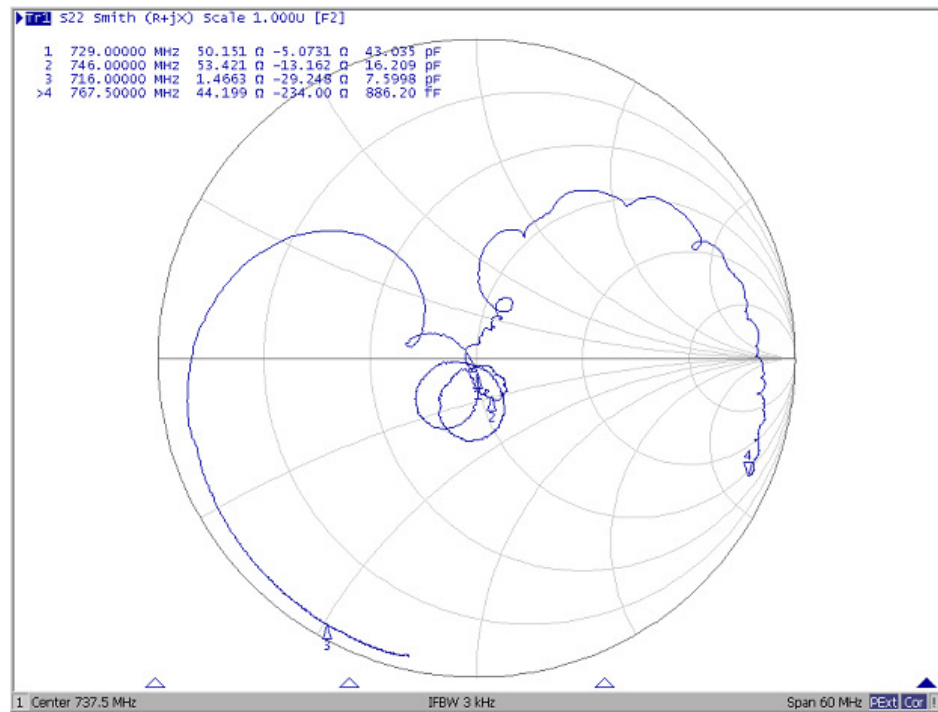
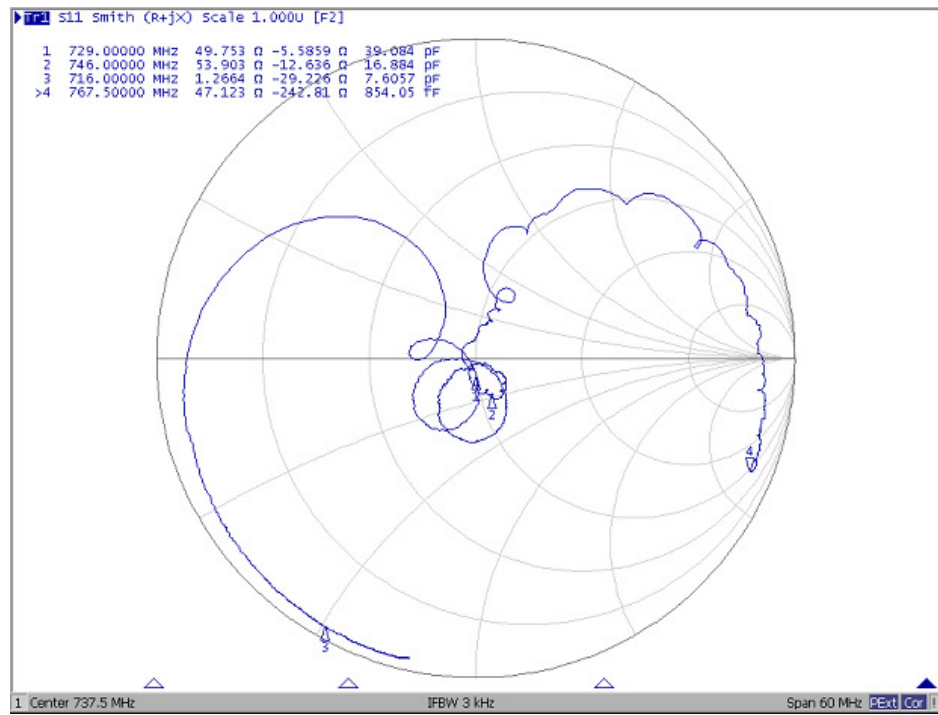
Parameters Description		Unit	Min	Typ	Max	Remarks
Insertion Loss	729 ~ 746MHz	dB(*1)	-	1.6	2.4	Band12 Rx
	734 ~ 746MHz	dB(*1)		1.6	2.1	Band17 Rx
Amplitude ripple	729 ~ 746MHz	dB	-	0.5	1.3	
	734 ~ 746MHz	dB		0.5	1.0	
VSWR	Input 729 ~ 746MHz	-	-	1.8	2.0	
	Output 729 ~ 746MHz	-	-	1.8	2.0	
Attenuation:						
1 ~ 699 MHz		dB	40	55	-	
699 ~ 716 MHz		dB	50	53	-	
716 ~ 722 MHz		dB	20	38	-	
1710 ~ 2238 MHz		dB	40	45	-	
2400 ~ 2500 MHz		dB	36	43	-	
2500 ~ 6000 MHz		dB	30	40	-	
Input impedance		Ω	50			single-ended
Output impedance		Ω	50			single-ended

(*1) Specification of insertion loss excludes loss that comes from the test board.

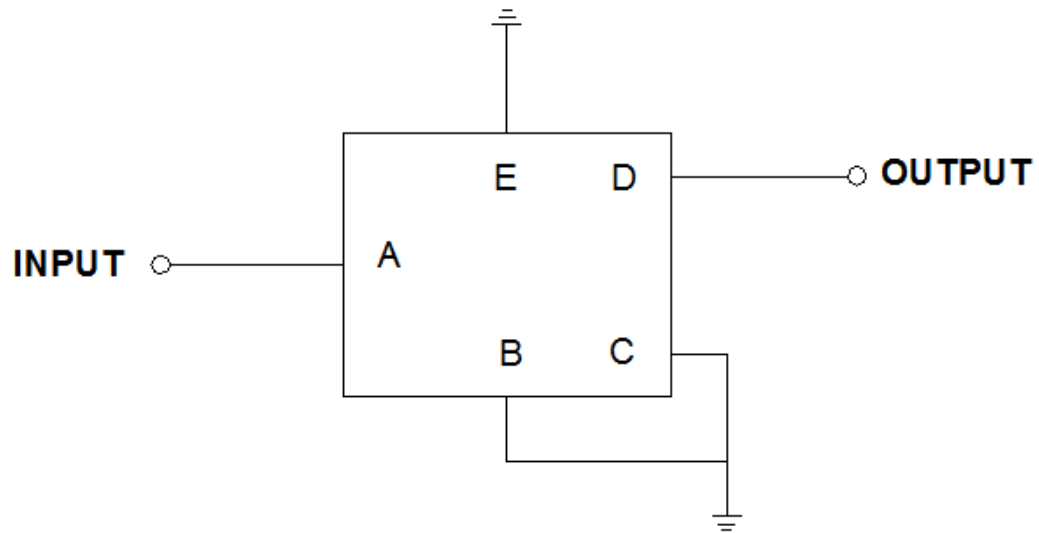
C. FREQUENCY CHARACTERISTICS:





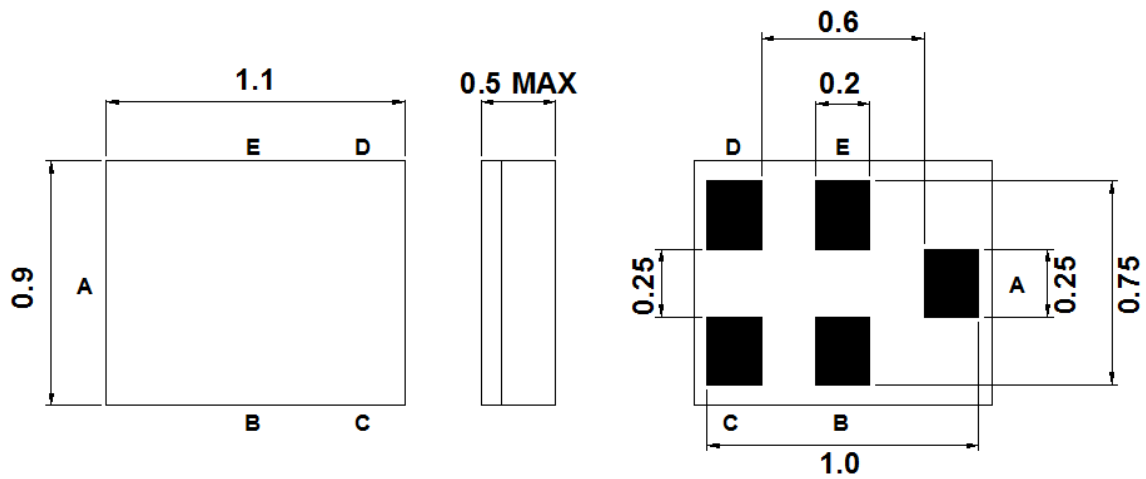


D. MEASUREMENT CIRCUIT:



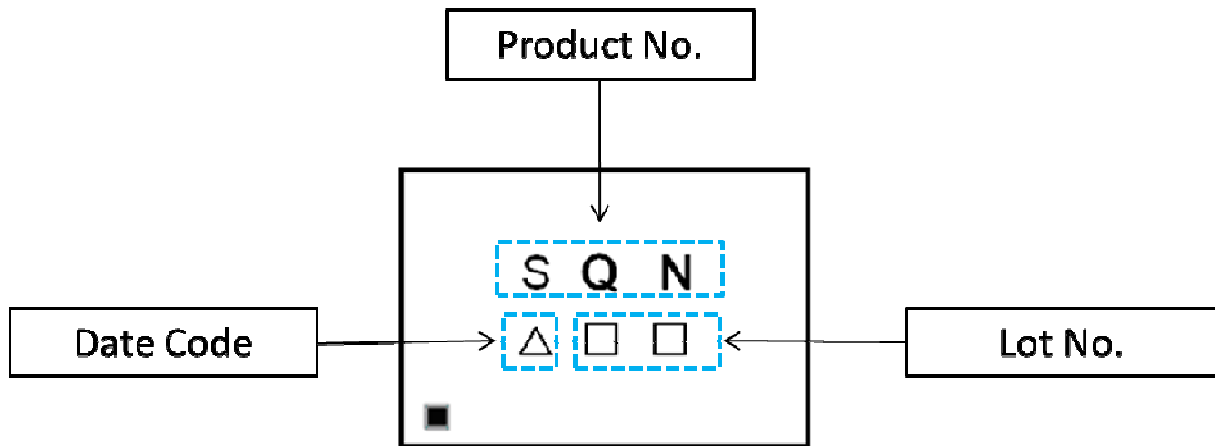
Source & Load Impedance: $50\ \Omega$

E. OUTLINE DRAWING:



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

Top View (Mass Production):



Marking name : SQN

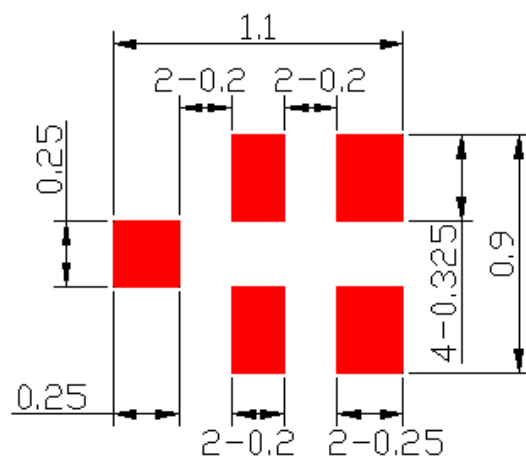
△ : Date Code

□ : 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
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
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

F. PCB Footprint:

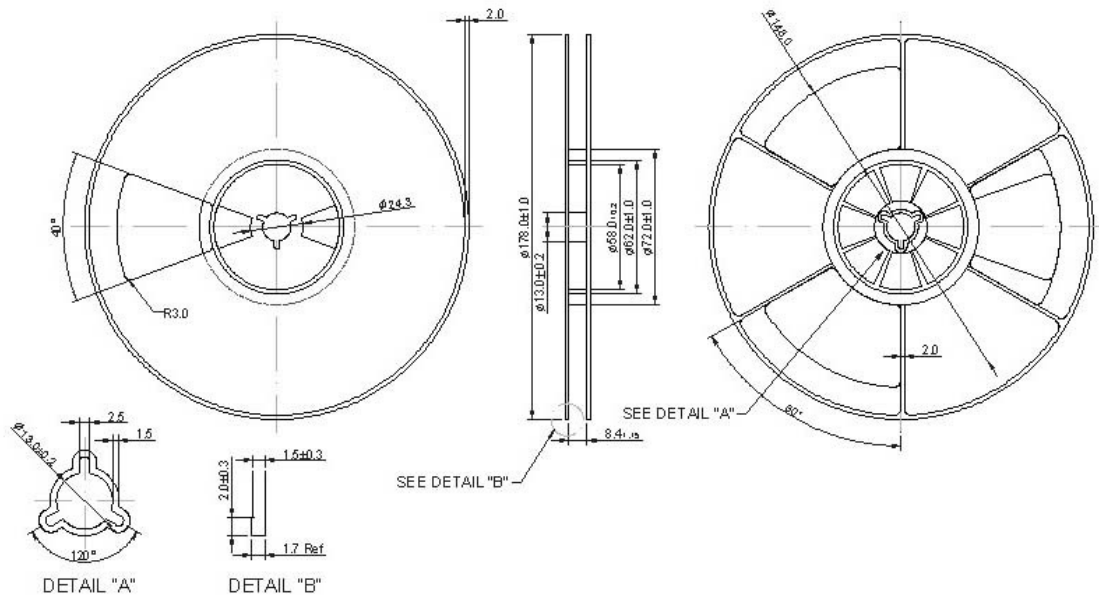


 : Land Pattern
Unit: mm

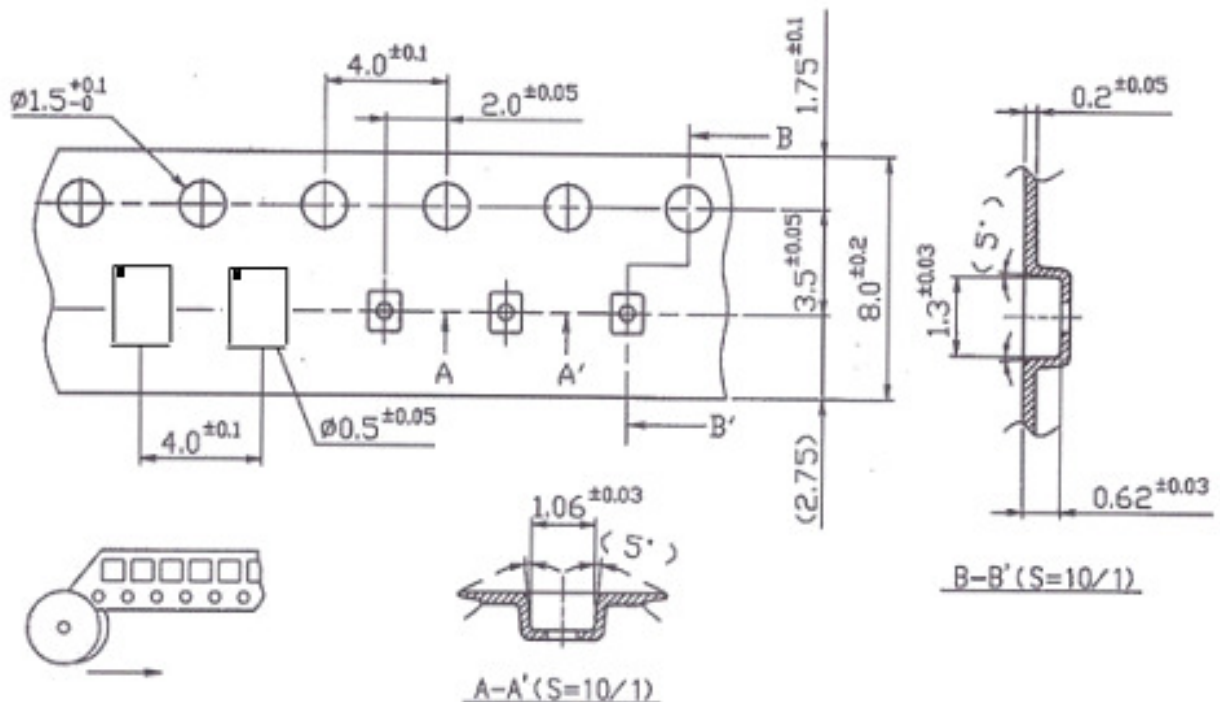
G. PACKING:

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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

