



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: Band7 Rx SAW Filter 2655 MHz SMD1.1X0.9 mm(BW=70MHz)

TST Parts No.: TA1847D

Customer Parts No.: _____

Customer signature required

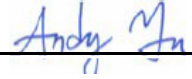
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ V.J Fanchian 

Approval by: _____ Andy Yu 

Date: _____ 2019/01/18

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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Band7 Rx SAW Filter 2655 MHz SMD 1.1X0.9 mm (BW=70MHz)

MODEL NO.: TA1847D

REV. NO.:3.0

A. MAXIMUM RATING:

1. Maximum Input Power: 10 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 3 (MSL 3)
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

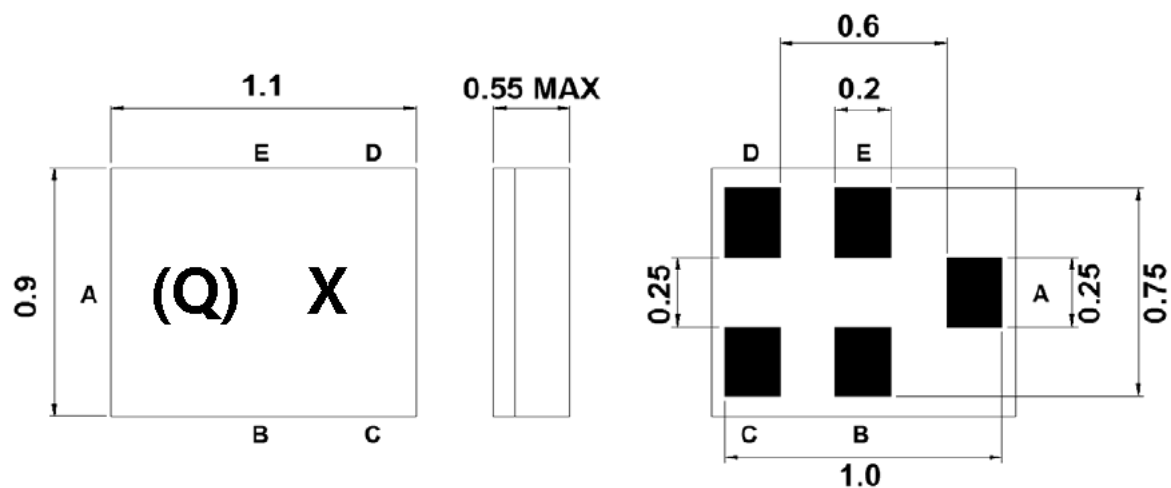
Terminating source impedance: $Z_s = 50\Omega//5.1\text{nH}$ (Single)

Terminating load impedance: $Z_L = 50\Omega//5.1\text{nH}$ (Single)

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2655.0	-
Insertion Loss within 2620.0 ~ 2690.0 MHz	dB	-	2.3	3.0
Amplitude Ripple within 2620.0 ~ 2690.0 MHz	dB _{p-p}	-	0.7	1.5
Input VSWR within 2620.0 ~ 2690.0 MHz	-	-	1.6	2.0
Output VSWR within 2620.0 ~ 2690.0 MHz	-	-	1.7	2.2
Attenuation				
10 ~ 2400.0 MHz	dB	28	31	-
45.0 MHz	dB	50	65	-
2400.0 ~ 2500.0 MHz	dB	30	33	-
2500.0 ~ 2570.0 MHz	dB	35	42	-
2570.0 ~ 2600.0 MHz	dB	2	4.5	-
2775.0 ~ 6000.0 MHz	dB	15	30	-
7620.0 ~ 7830.0 MHz	dB	15	28	-
7860.0 ~ 8000.0 MHz	dB	15	27	-

Notes : (1) With Matching Network .

C.OUTLINE DRAWING:



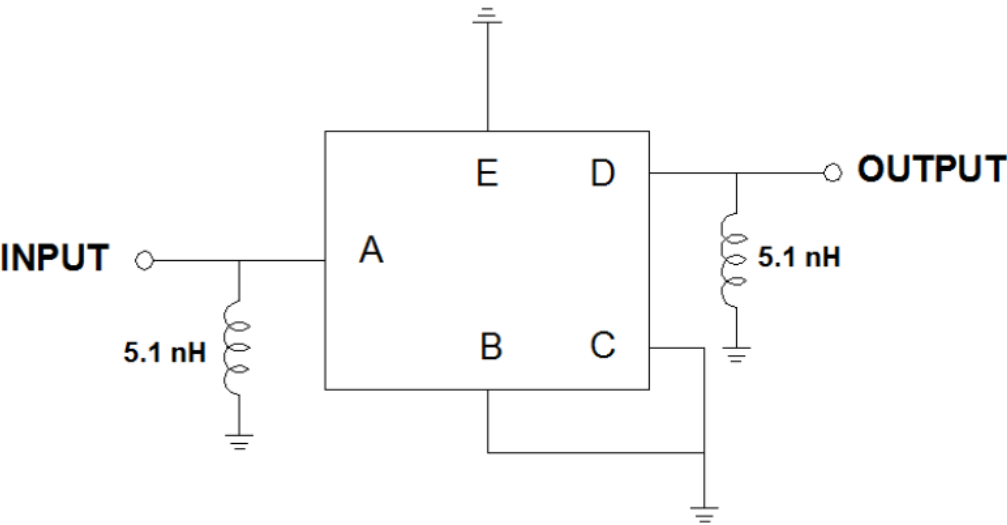
Marking Descriptions	
(Q)	Series Number
X	Date Code(Year+Month)

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

Dare Code (Year+Month)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
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	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

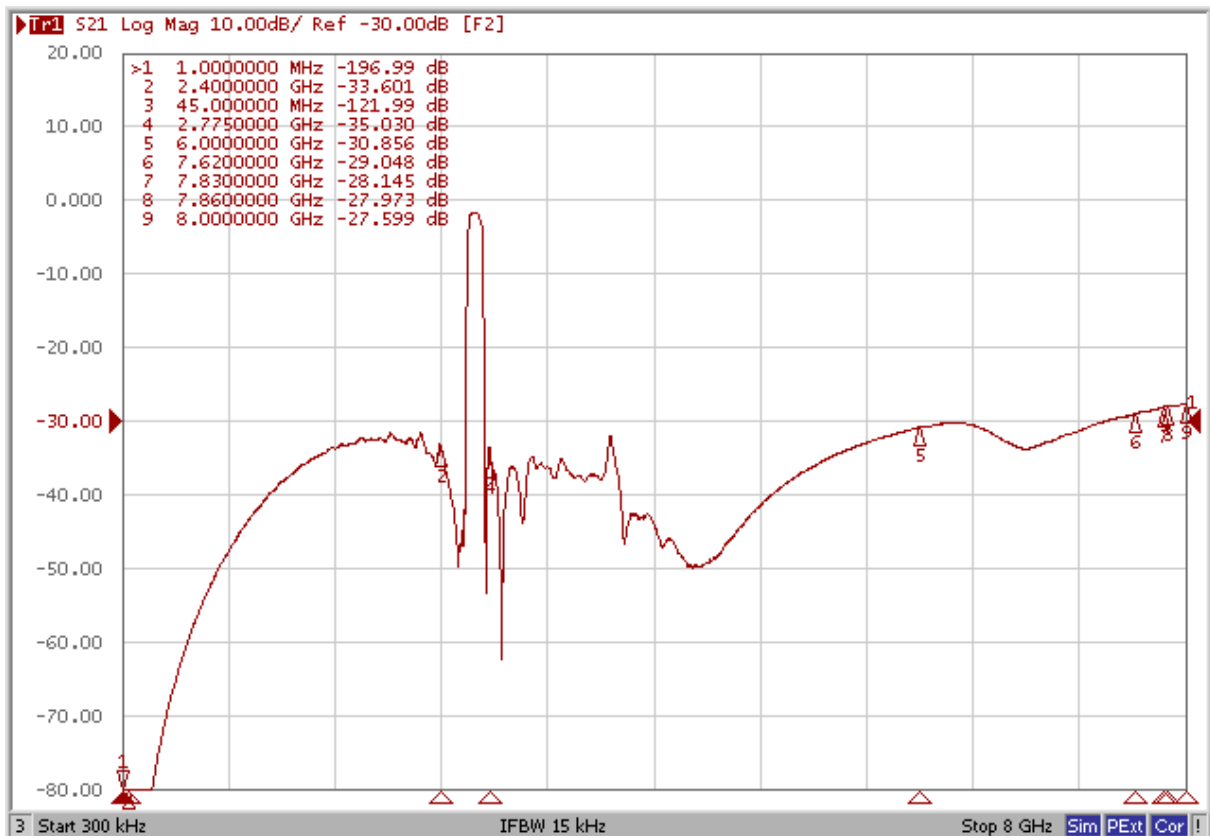
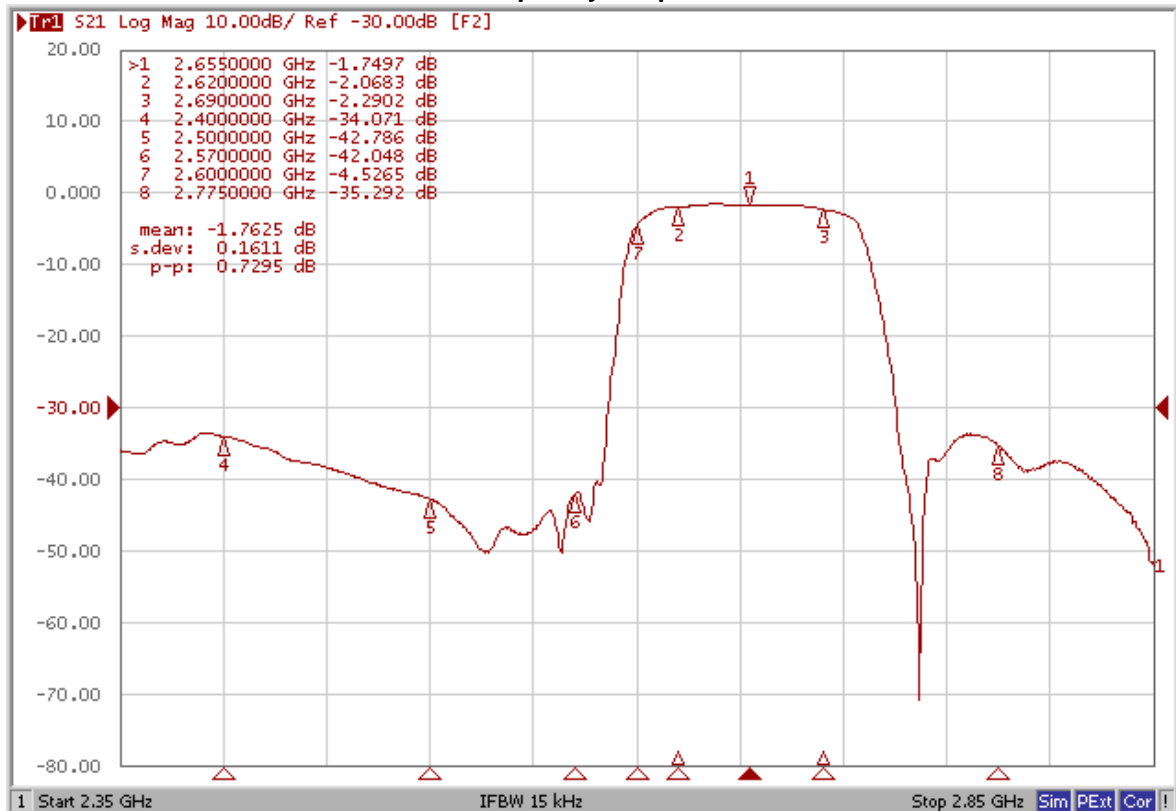
D. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50 Ω

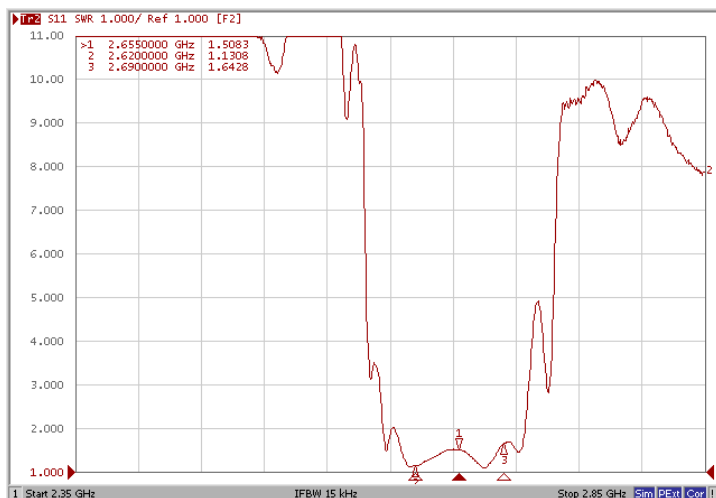
E. FREQUENCY CHARACTERISTICS:

Frequency Response

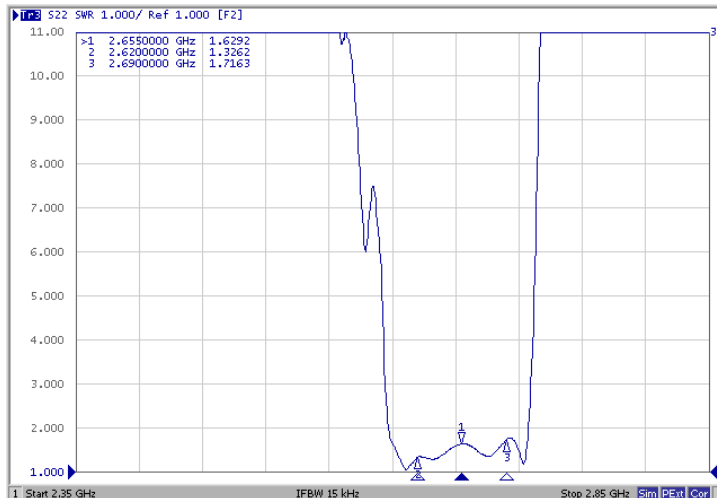


VSWR

S11

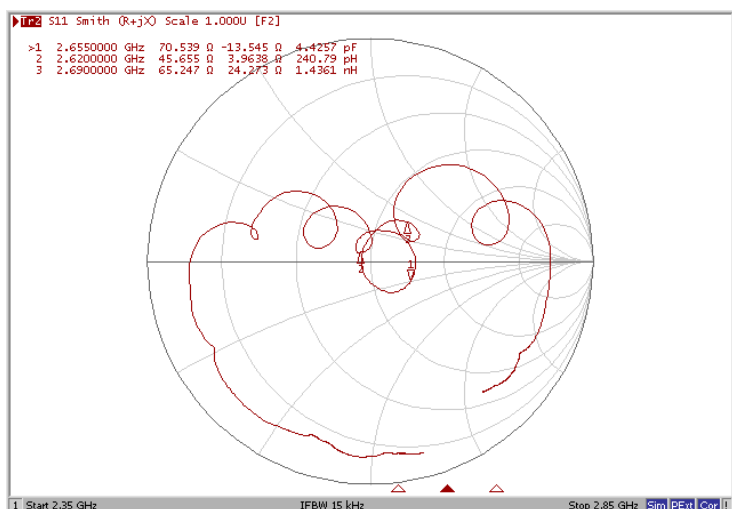


S22

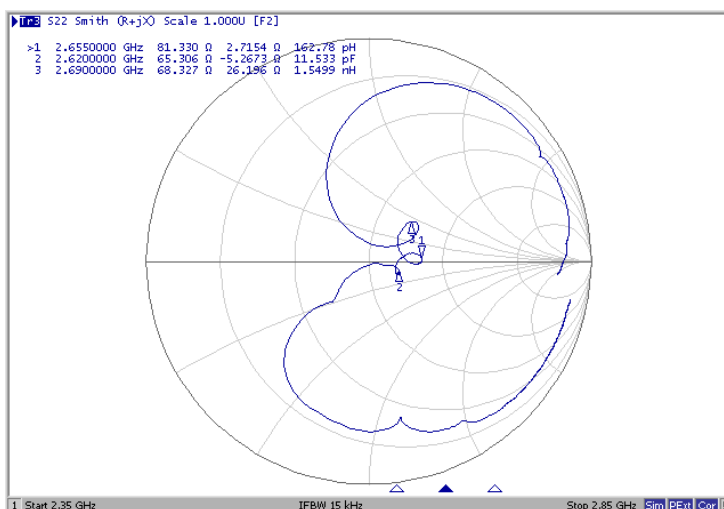


Smith Chart

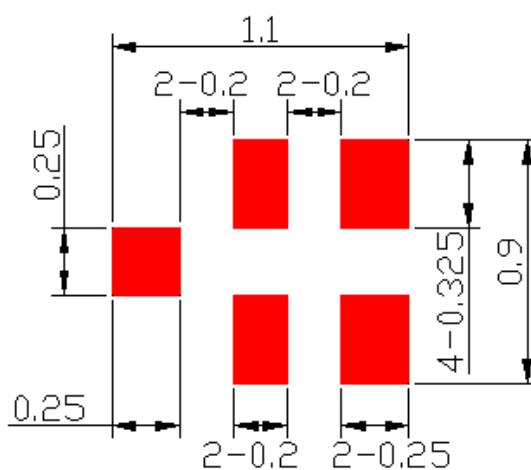
S11



S22



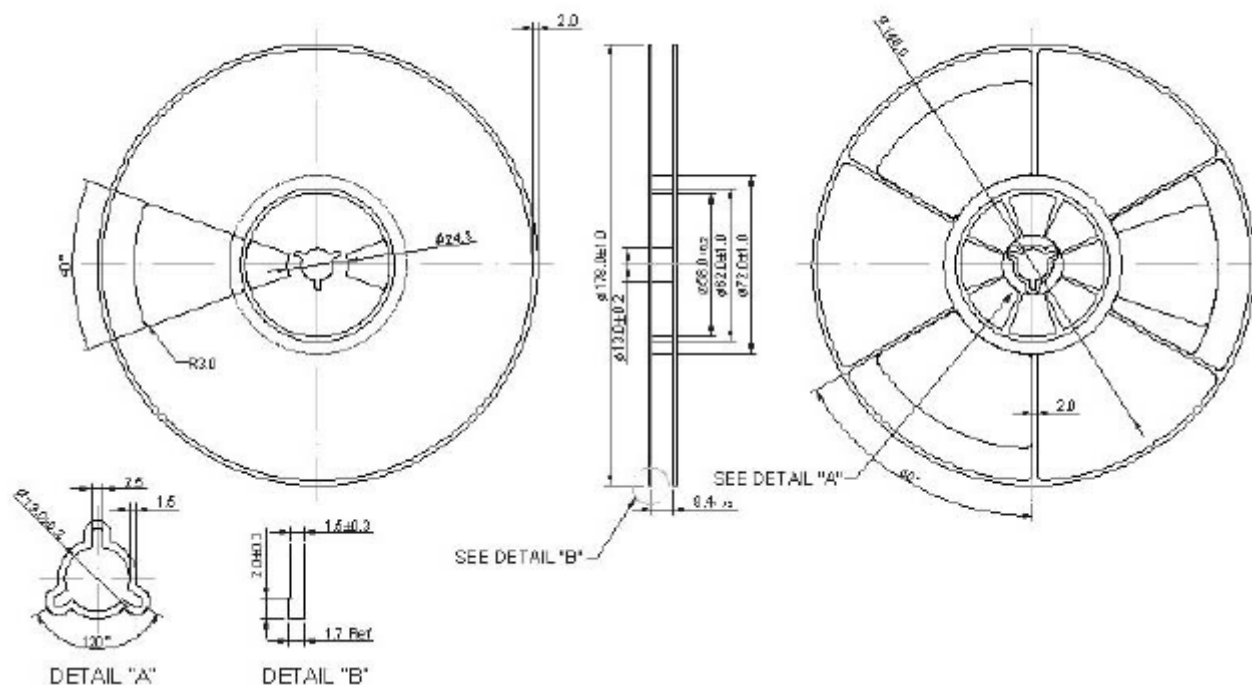
F. PCB Footprint:



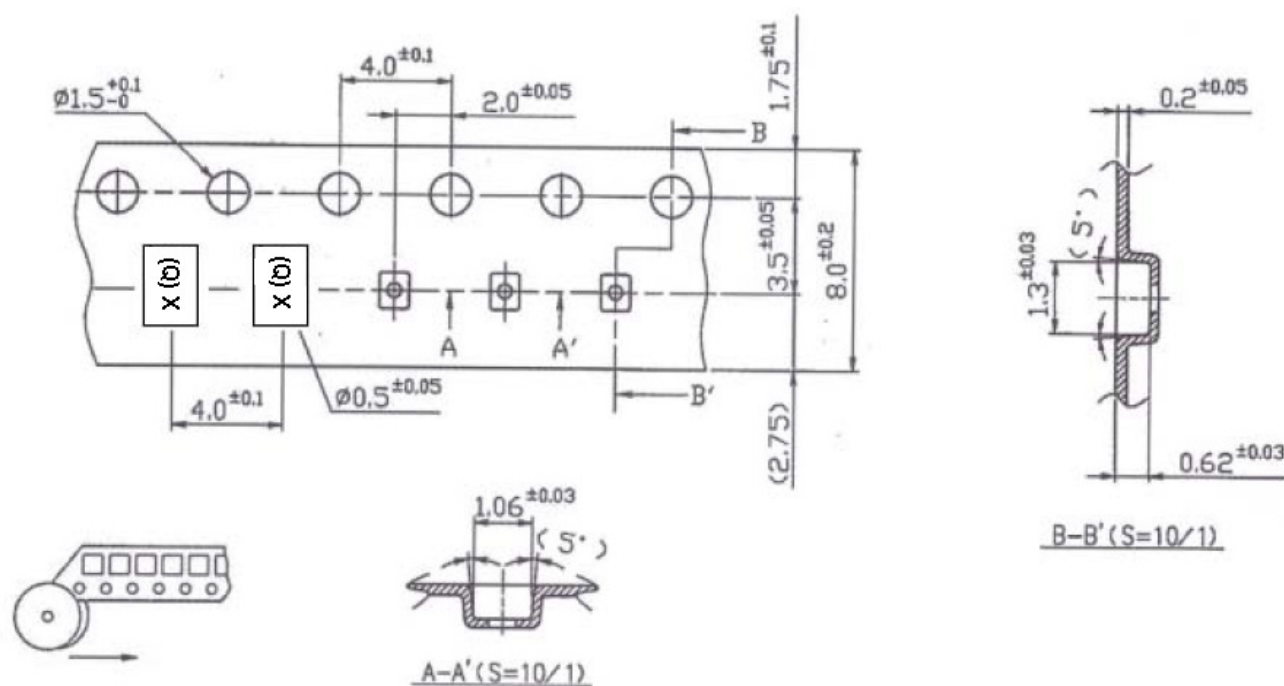
■ : Land Pattern
Unit: mm

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.

