



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Tx Filter 733 MHz Band 28 SMD 1.4x1.1 mm (30MHz BW)

TST Part No.: TA2413A

Customer Part No.: _____

Customer signature required

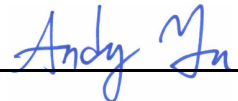
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2019/12/13

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 Tx Filter 733 MHz Band 28 SMD 1.4X1.1 mm (30MHz BW)

MODEL NO.:TA2413A

REV.2

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating temperature range: -30 °C to +85 °C
4. Storage temperature range: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

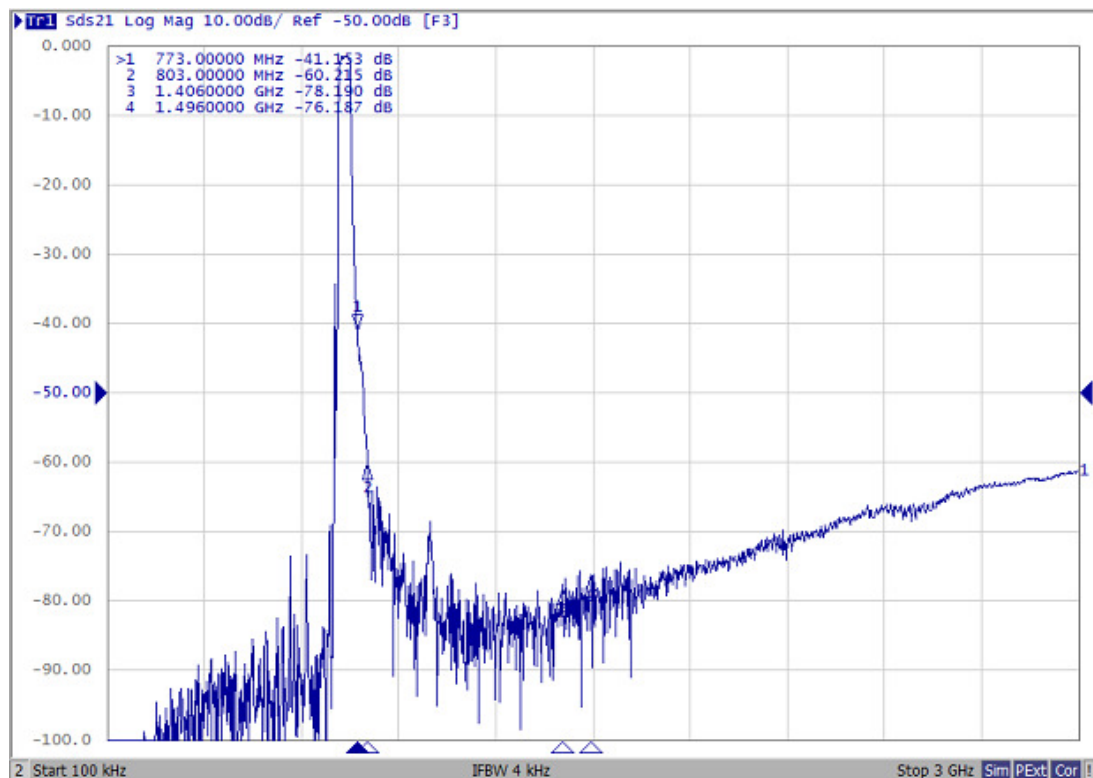
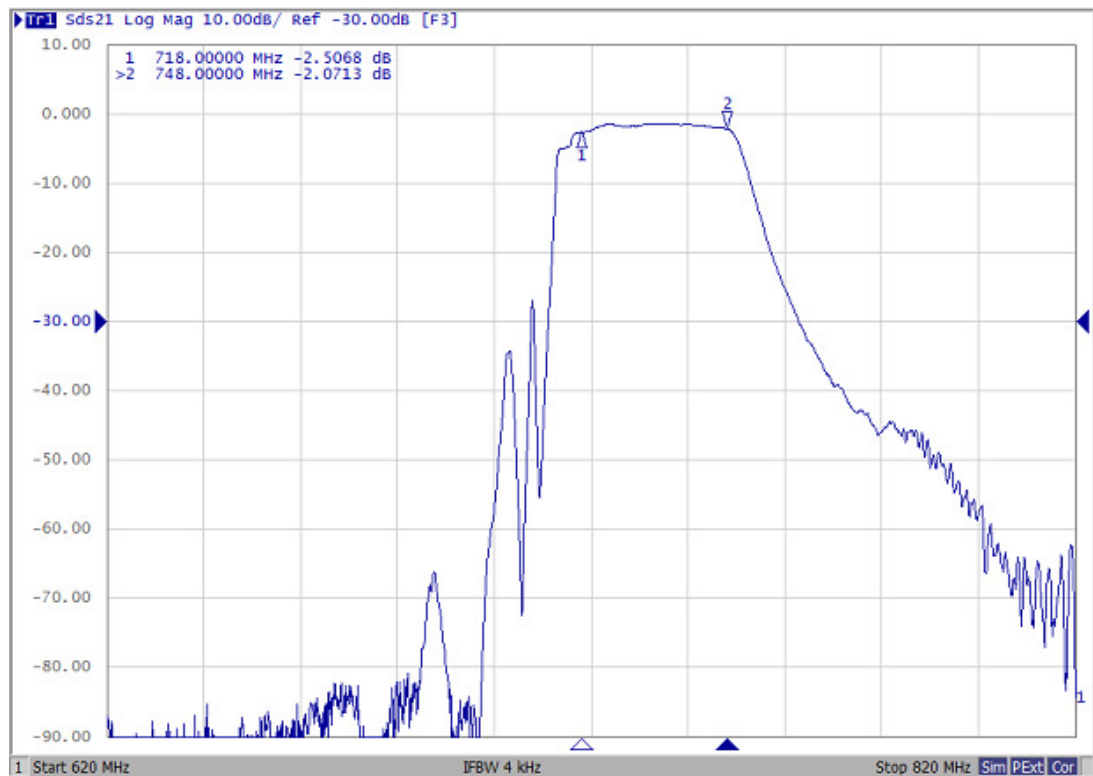
Source impedance (unbalanced) : $Z_s = 50 \Omega$

Load Impedance (balanced) : $Z_L = 100 \Omega$

Parameters Description	Unit	Min	Typ	Max
Center frequency F_c	MHz	-	733	-
Insertion Loss 718.0 ~ 748.0 MHz	dB	-	2.6	4.0
Amplitude ripple 718.0 ~ 748.0 MHz	dB	-	1.2	2.6
V.S.W.R 718.0 ~ 748.0 MHz			2.5	2.9
Attenuation:				
733.0 ~ 803.0 MHz	dB	35	43	-
1406.0 ~ 1496.0 MHz	dB	45	55	-

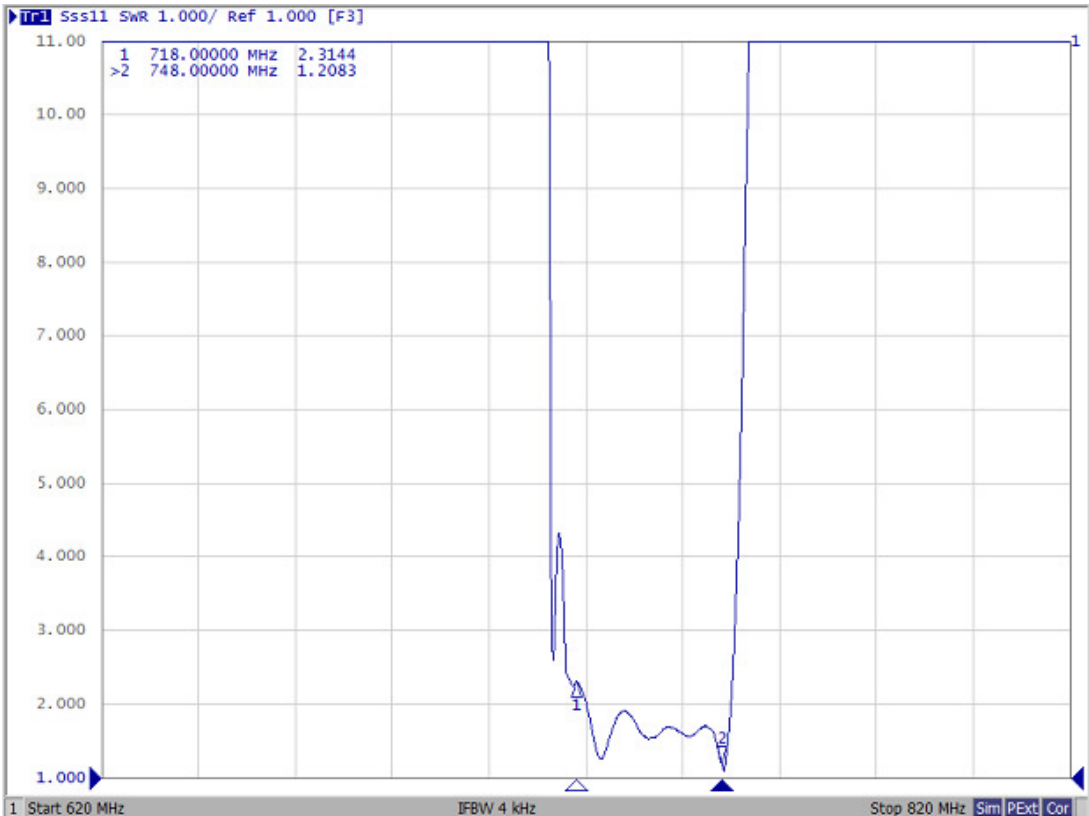
C. FREQUENCY CHARACTERISTICS:

1. Frequency Response

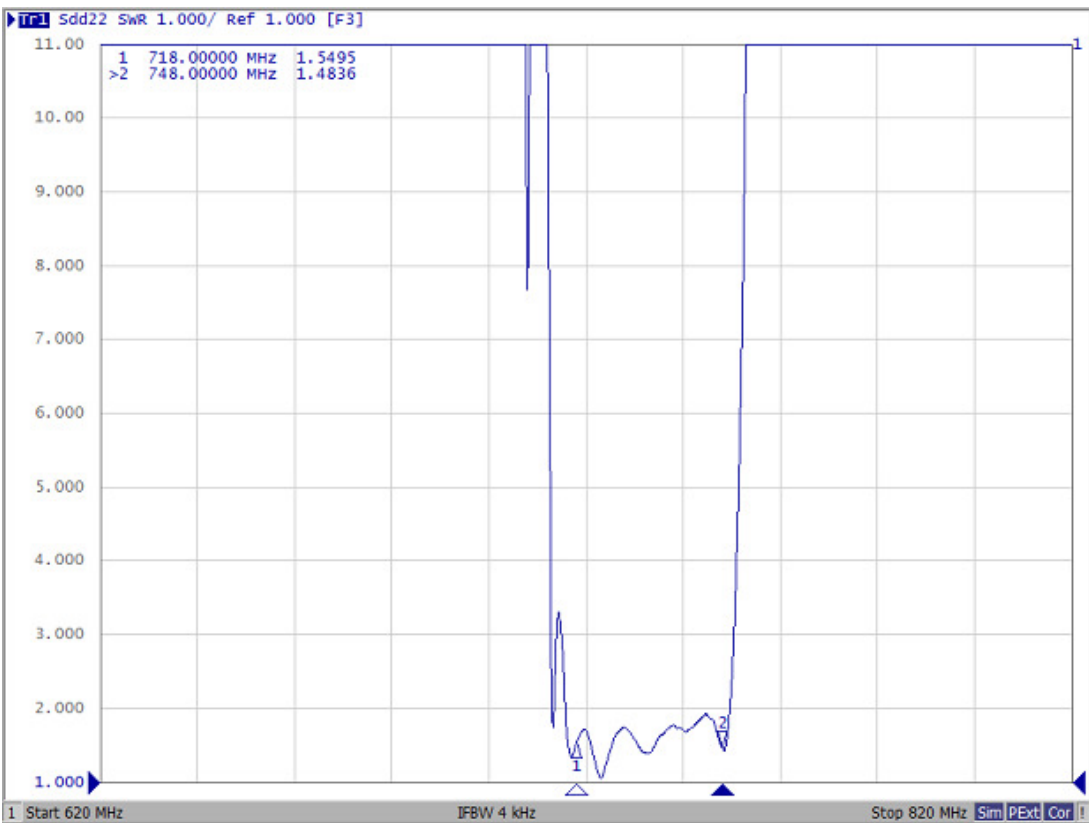


2. VSWR

S11

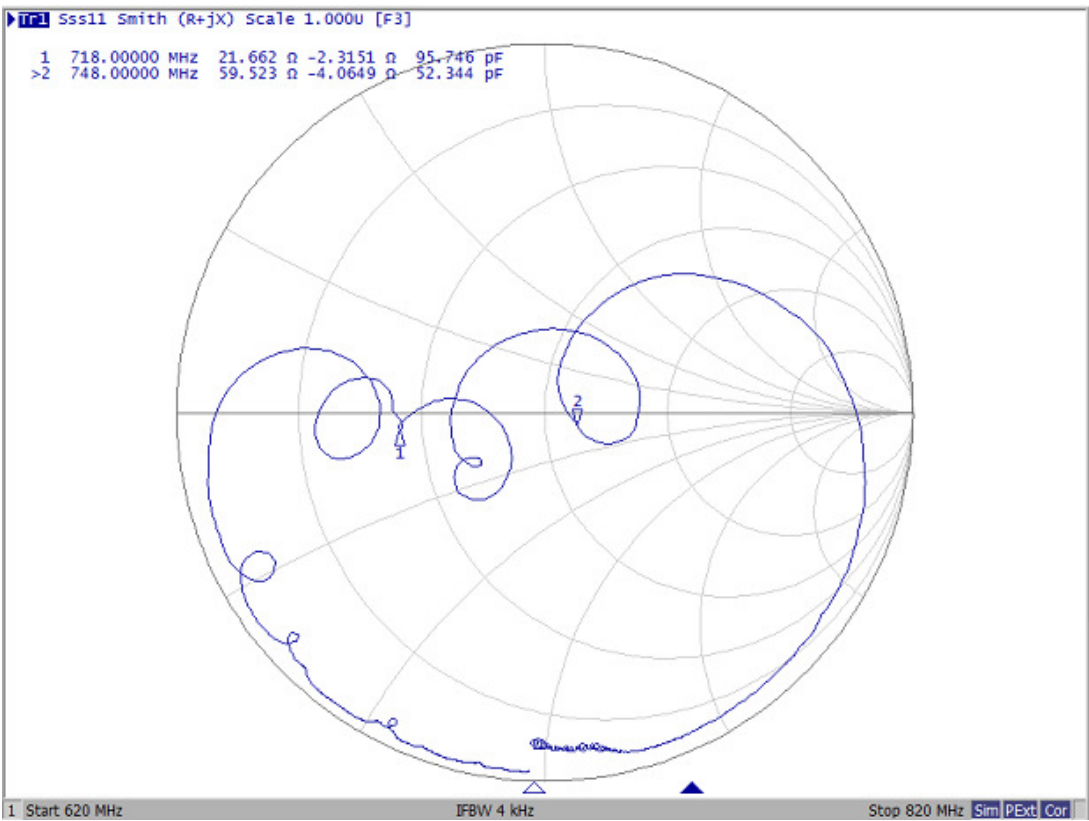


S22

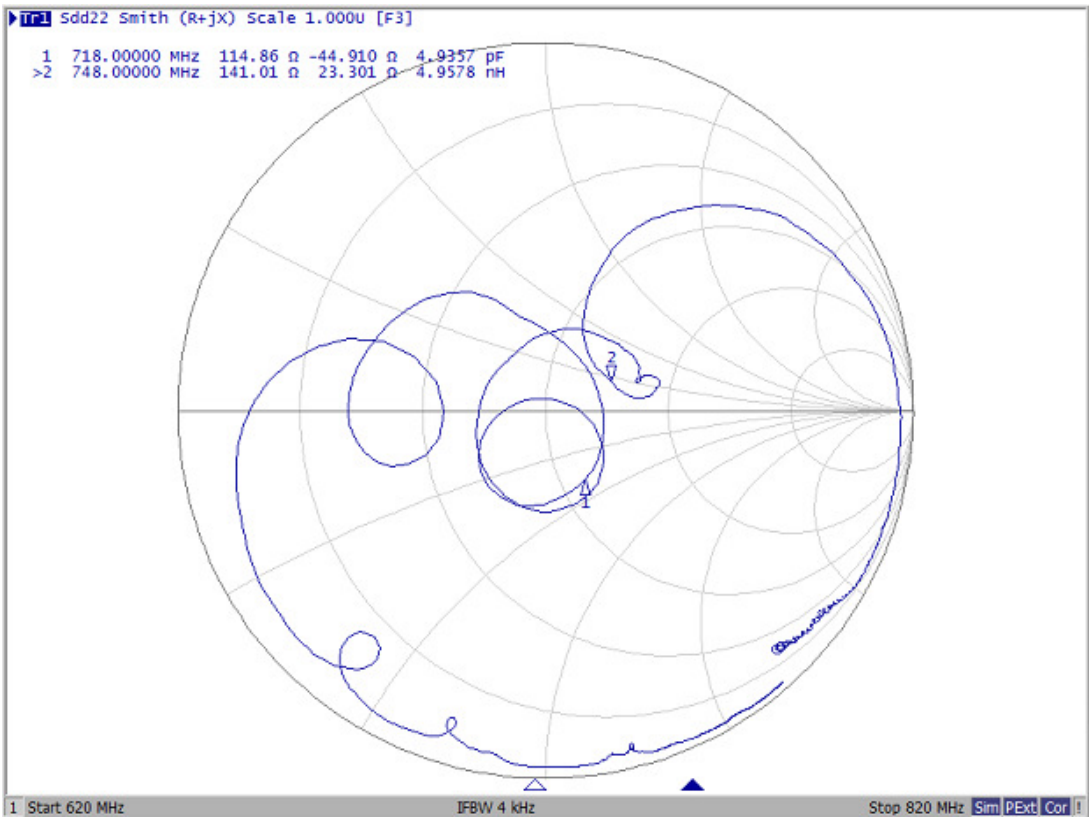


3. Smith Chart

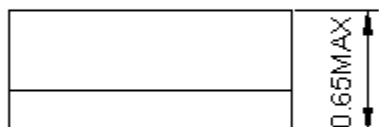
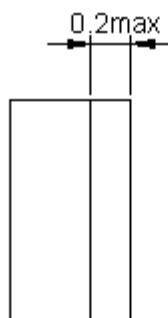
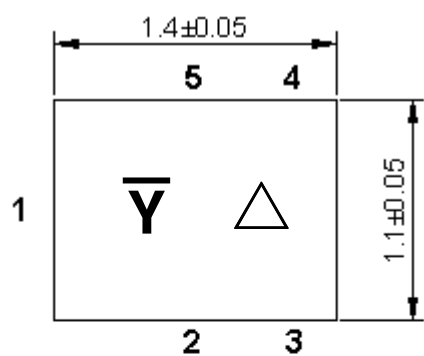
S11



S22



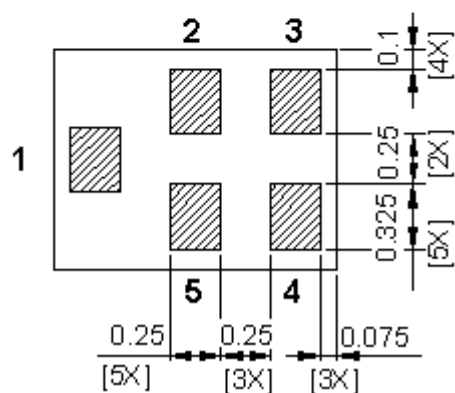
D. Outline Drawing :



All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm



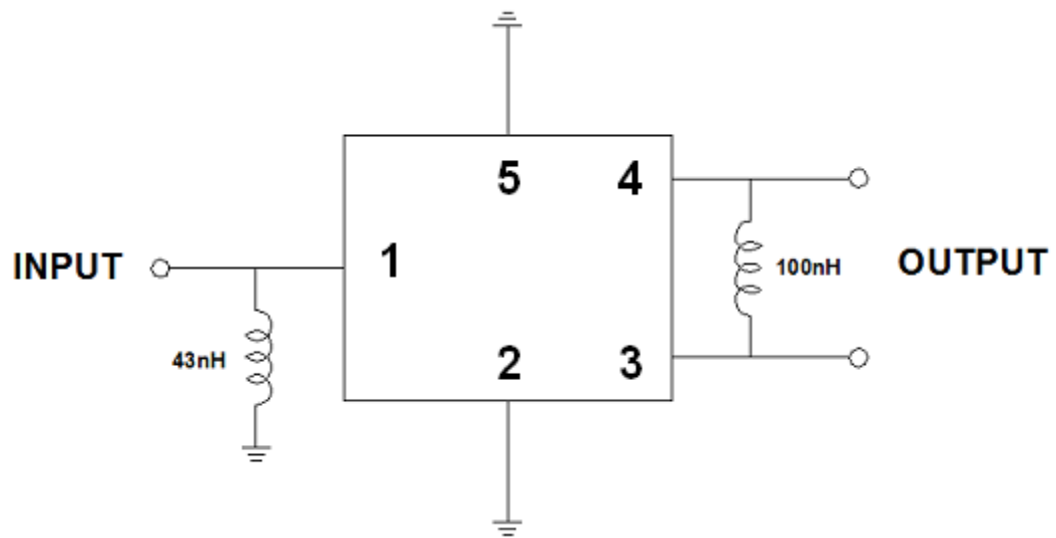
Pin Description	
1	Input
3,4	Balanced Output
2,5	Ground

Marking Descriptions	
$\overline{Y}$	Series Number
$\triangle$	Date Code(Year+Month)

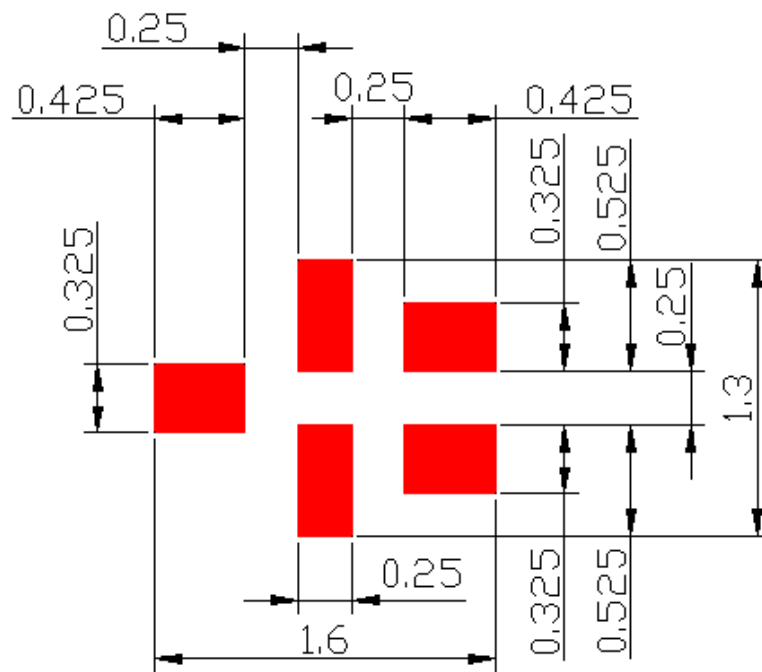
Date Code: (Follow the table) (8-year cycle)

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
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>i</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>

E. Matching Circuit :



PCB Footprint:



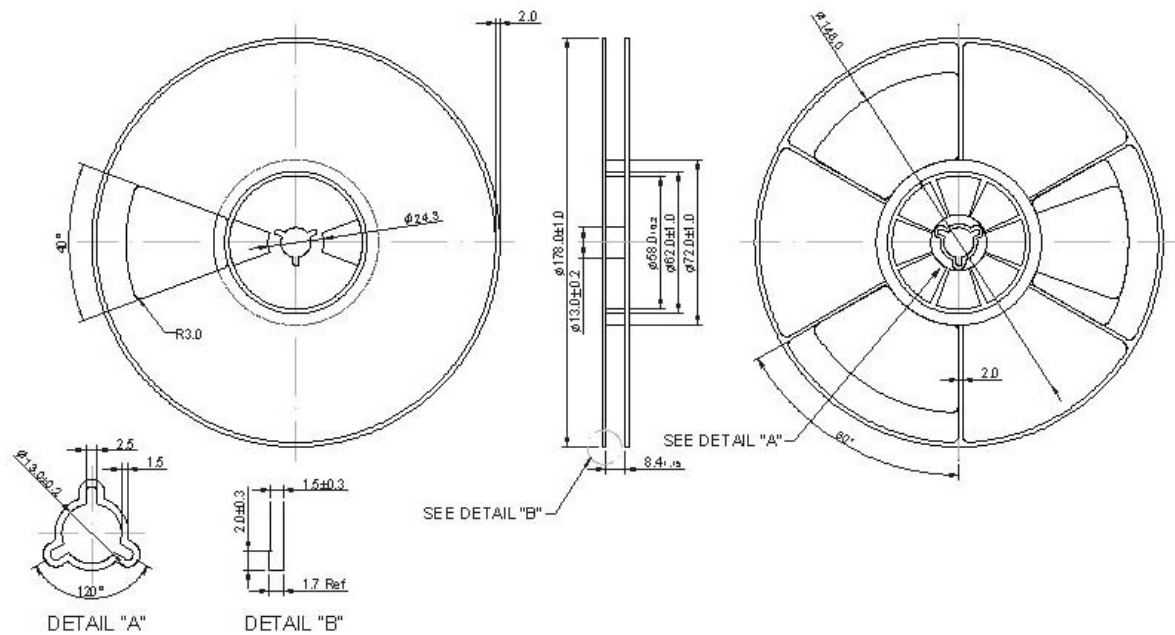
: Land Pattern

Unit : mm

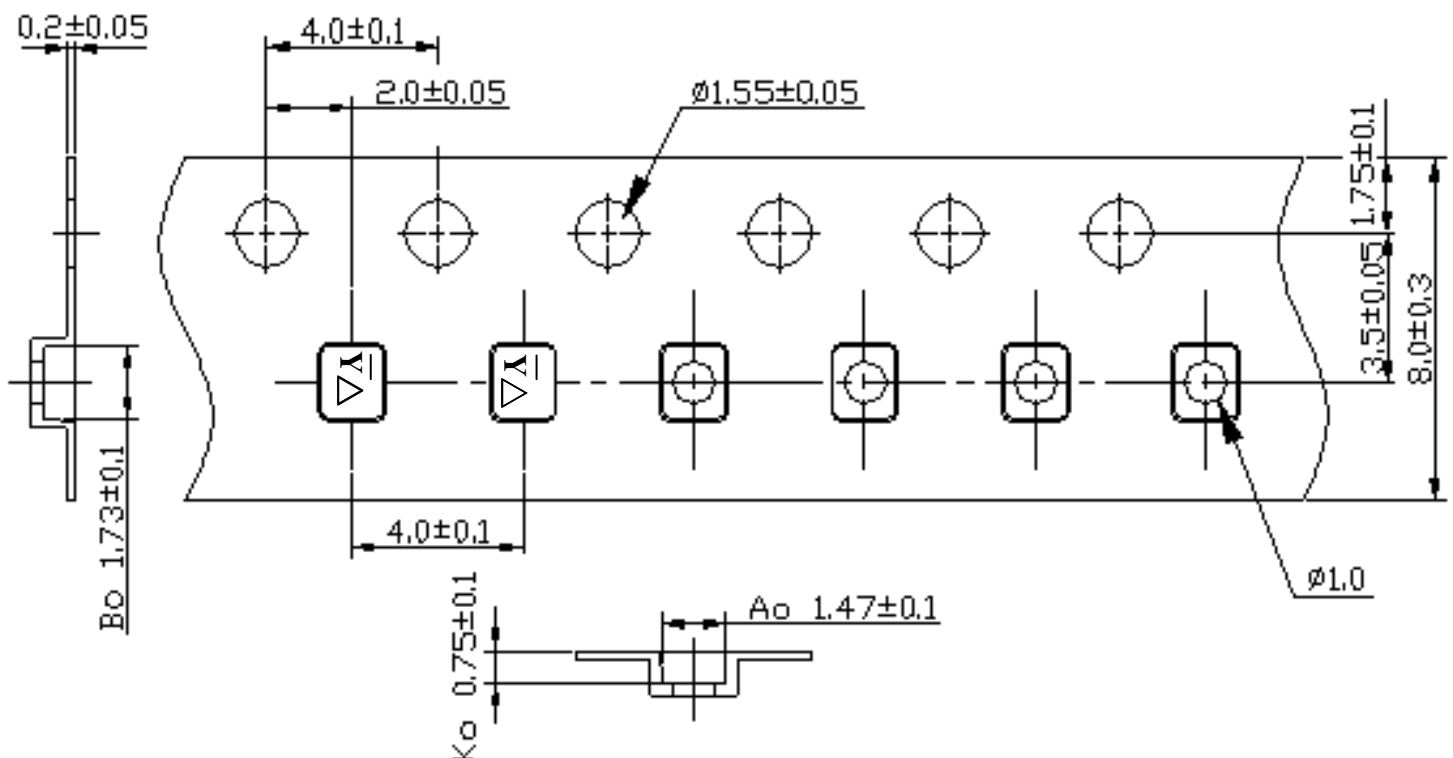
F. PACKING:

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°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.

