



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 Filter 2605 MHz Band 41 TRX SMD 1.1x0.9 mm (BW=100 MHz)

TST Part No.: TA2280A

Customer Part No.: _____

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

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2017/09/06

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 Filter 2605 MHz Band 41 TRX SMD 1.1x0.9 mm

MODEL NO.:TA2280A

REV. NO.:2

A. MAXIMUM RATING:

1. Maximum Input Power: 28.5 dBm, 5000h 55 °C
2. Maximum DC Voltage: 3 V
3. Operating temperature range: -20 °C to +85 °C
4. Storage temperature range: -40 °C to +85 °C

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

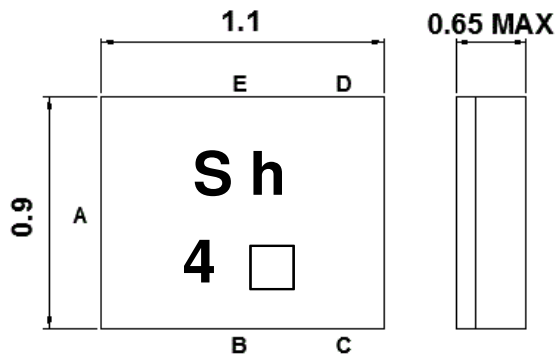
Terminating source impedance: $Z_s = 50//3.6nH \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50//3.6nH \Omega$ (Single-ended)

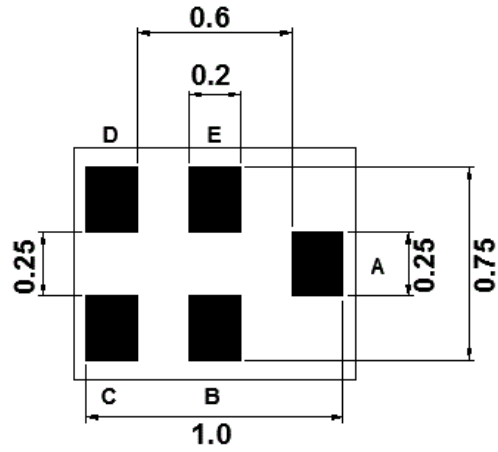
Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	2605	-
Insertion Loss (2555 ~ 2575 MHz)	IL	-	2.8	4.0
Insertion Loss (2575 ~ 2635 MHz)	IL	-	2.0	2.5
Insertion Loss (2635 ~ 2655 MHz)	IL	-	2.0	2.5
Amplitude Ripple (2555 ~ 2655 MHz)	dB _{p-p}	-	1.5	2.8
VSWR (2555 ~ 2655 MHz)	-	-	2.1	2.4
Attenuation (reference level from 0 dB)				
10 ~ 960 MHz	dB	40	48	-
1225 ~ 1559 MHz	dB	30	36	-
1559 ~ 1606 MHz	dB	30	35	-
1606 ~ 1710 MHz	dB	30	34	-
1710 ~ 2170 MHz	dB	27	31	-
2170 ~ 2400 MHz	dB	27	31	-
2401 ~ 2438 MHz	dB	32	35	-
2421 ~ 2483 MHz	dB	34	37	-
2750 ~ 4900 MHz	dB	30	33	-
4900 ~ 6000 MHz	dB	30	35	-
6000 ~ 8000 MHz	dB	20	29	-

C. OUTLINE DRAWING:

top view



bottom view



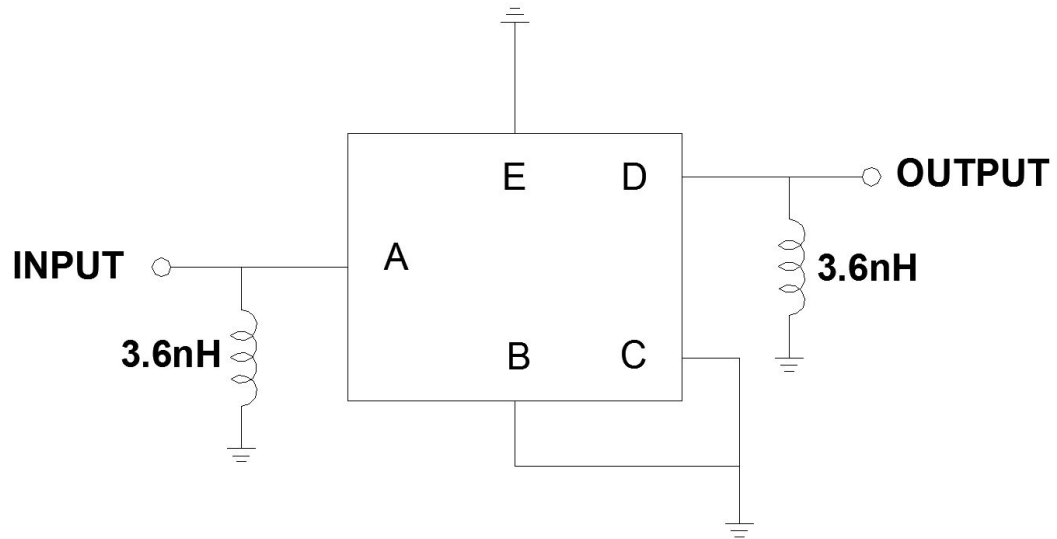
Pin Description	
B, C, E	Ground
A	Input
D	Output

Marking Descriptions	
	Date Code(Year+Month)

: Year/Month Code (Follow the table)

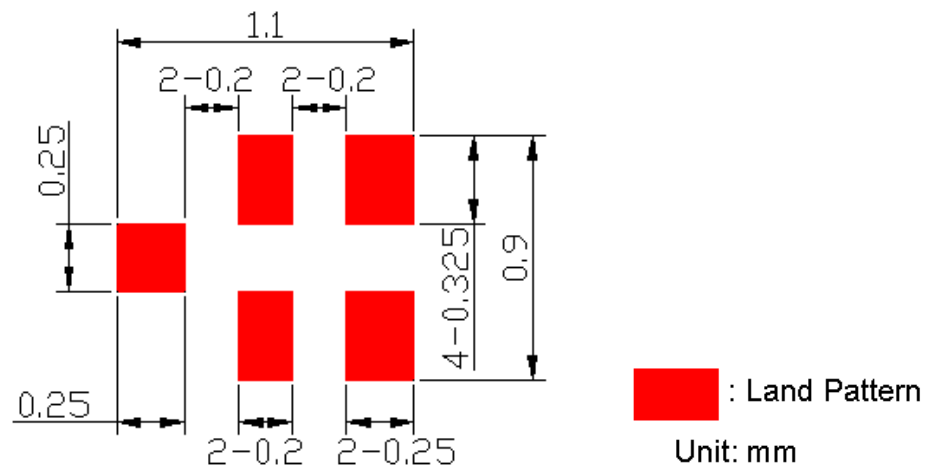
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</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:

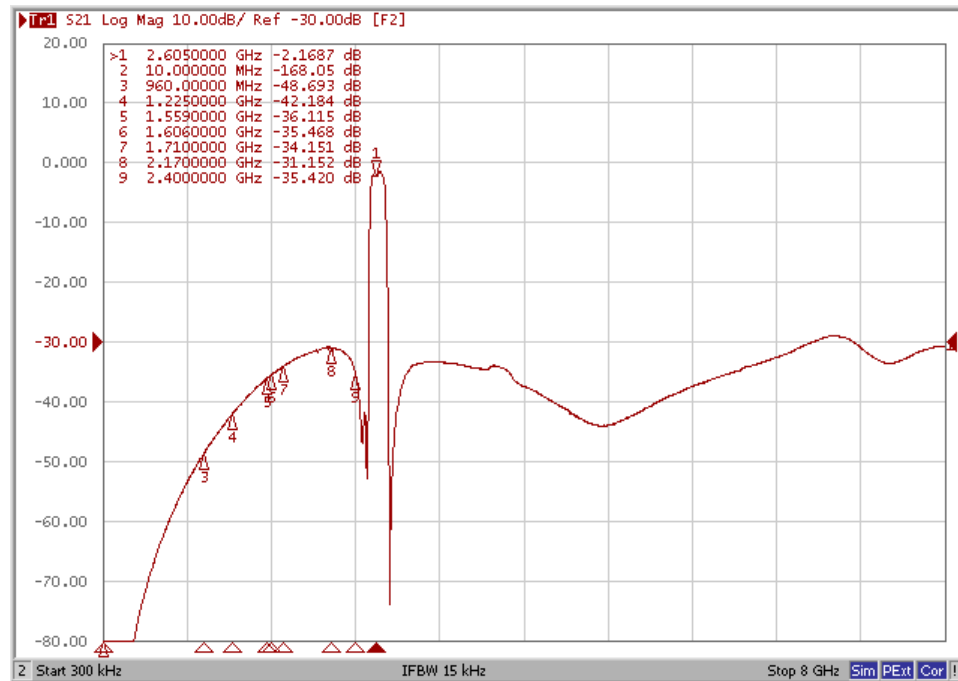
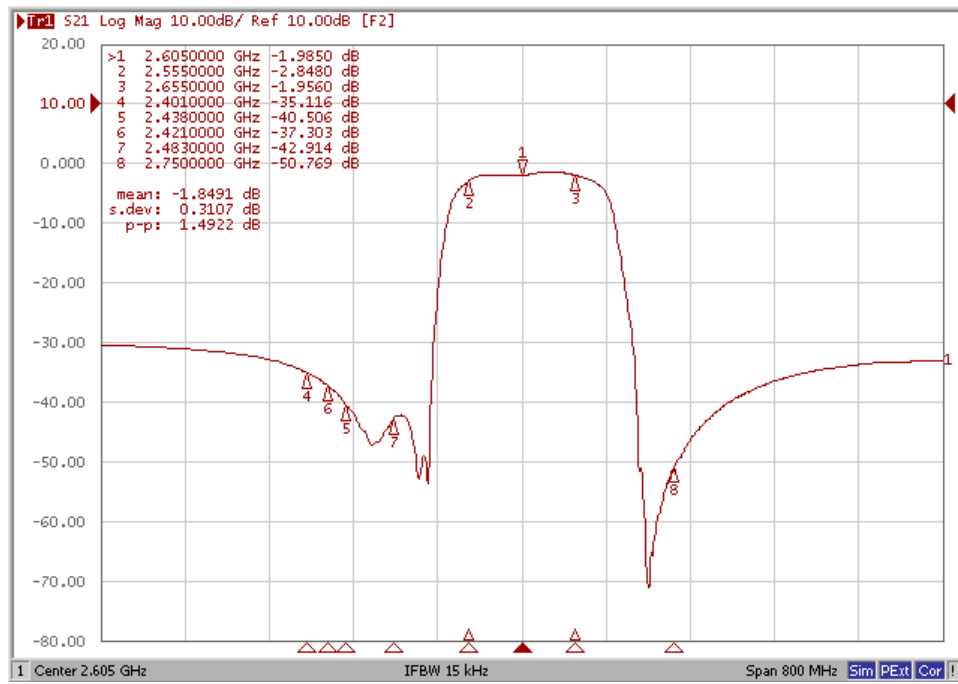


Source & Load Impedance: 50 Ω

E. PCB Footprint :

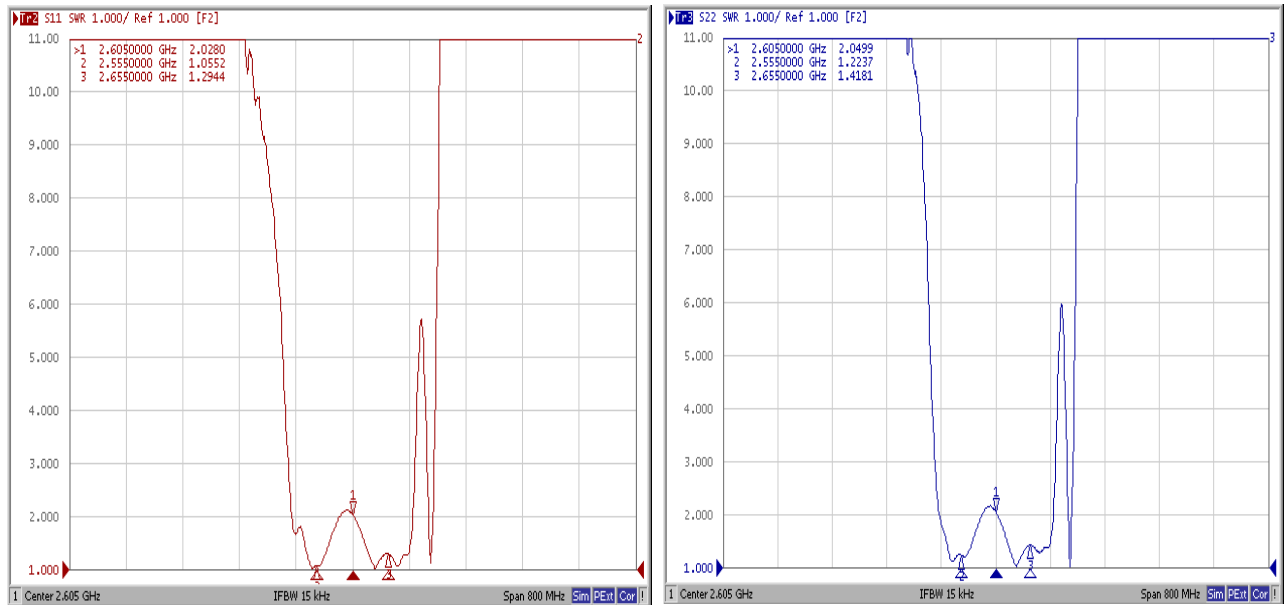


F. Frequency Characteristics:

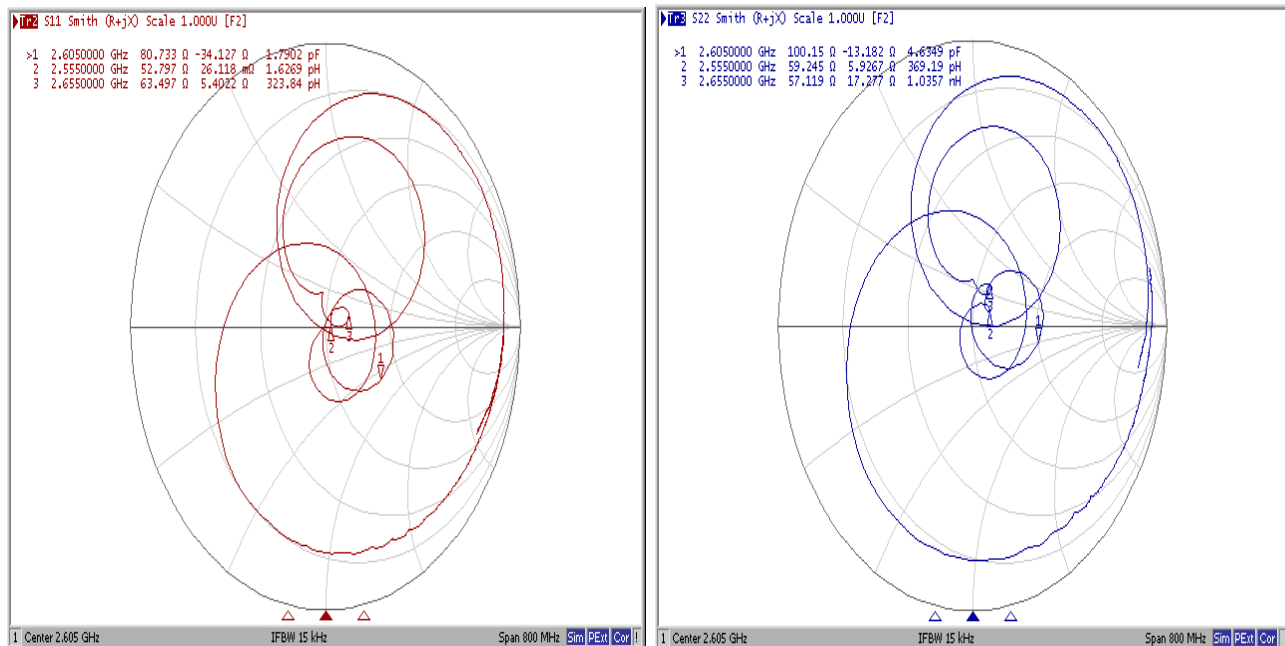


Reflection Functions:

VSWR



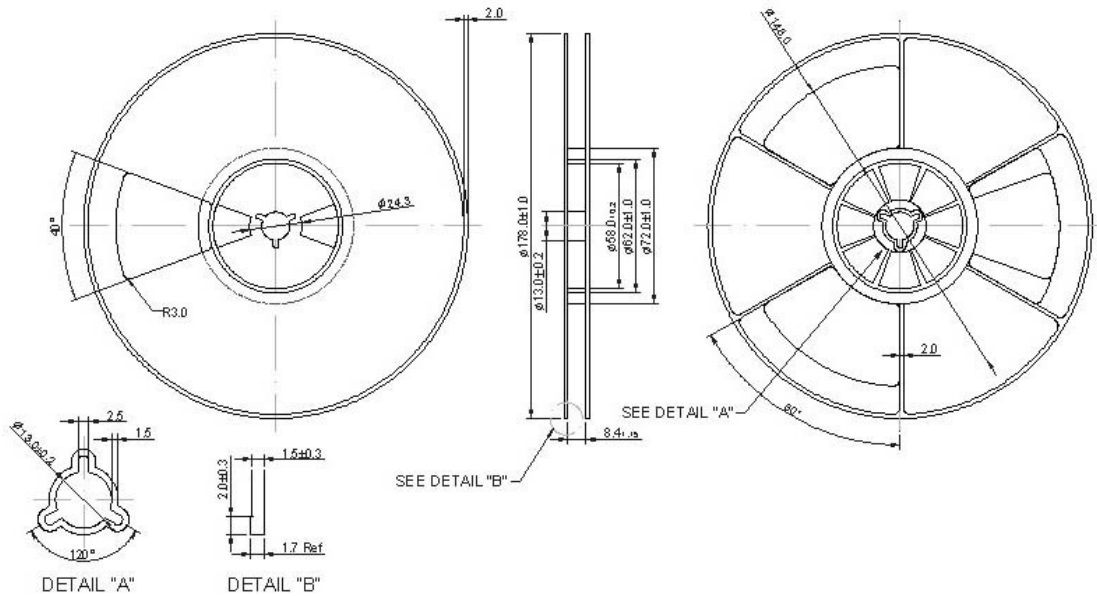
Smith Chart



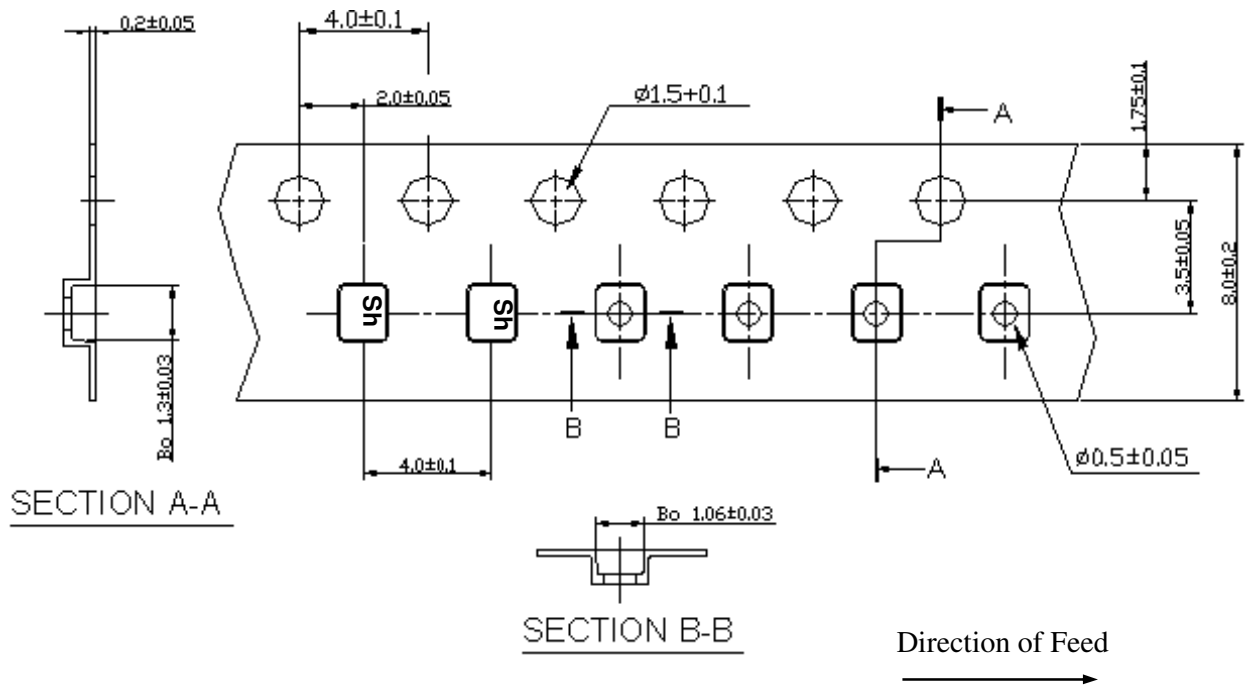
G. PACKING:

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.

