



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 452.4 MHz SMD 3.0x3.0 mm (BW=4.8 MHz)

TST Part No.: TA1854A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang 

Approved by: _____ Bob Chau 

Date: _____ 2015/01/07

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 452.4 MHz

MODEL NO.: TA1854A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 30 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

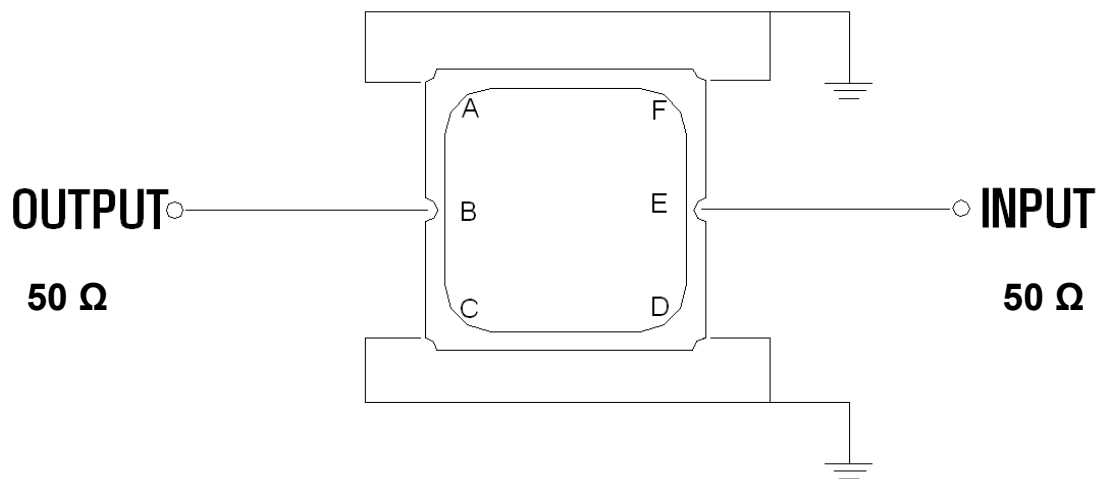
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

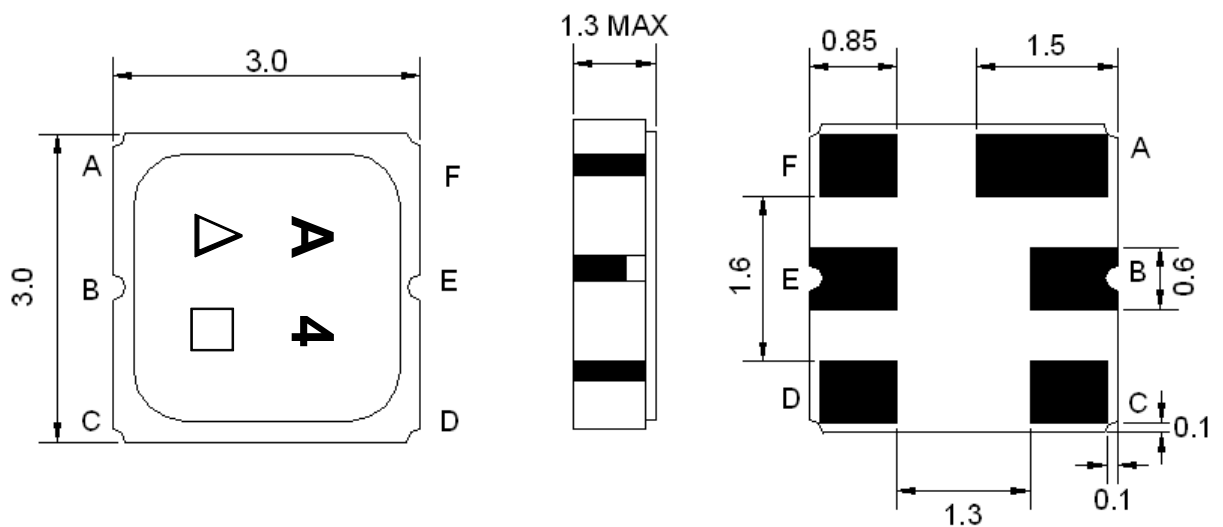
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.
Center frequency Fc	MHz	-	452.4	-
Insertion Loss (450~454.8 MHz) IL	dB	-	2.0	2.8
VSWR (450~454.8 MHz)	-	-	1.3	2.0
Attenuation (Reference level from 0 dB)				
0.3 ~ 440 MHz	dB	25	28	-
460 ~ 464.8 MHz	dB	30	48	-
464.8 ~ 1700 MHz	dB	20	25	-
1700 ~ 2000 MHz	dB	15	22	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



E: Input

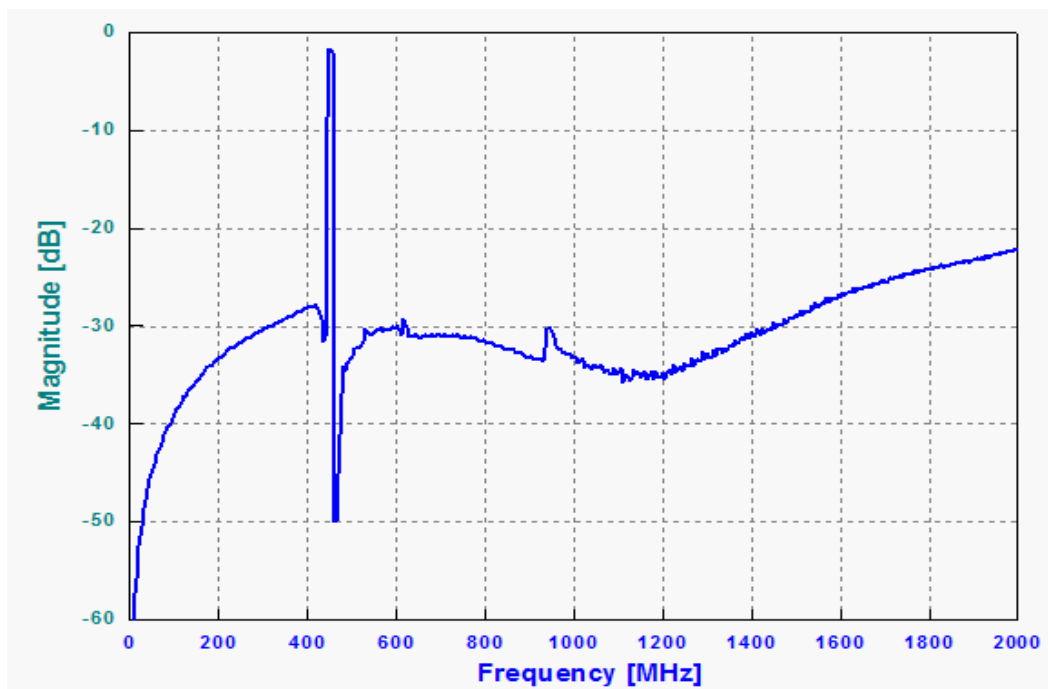
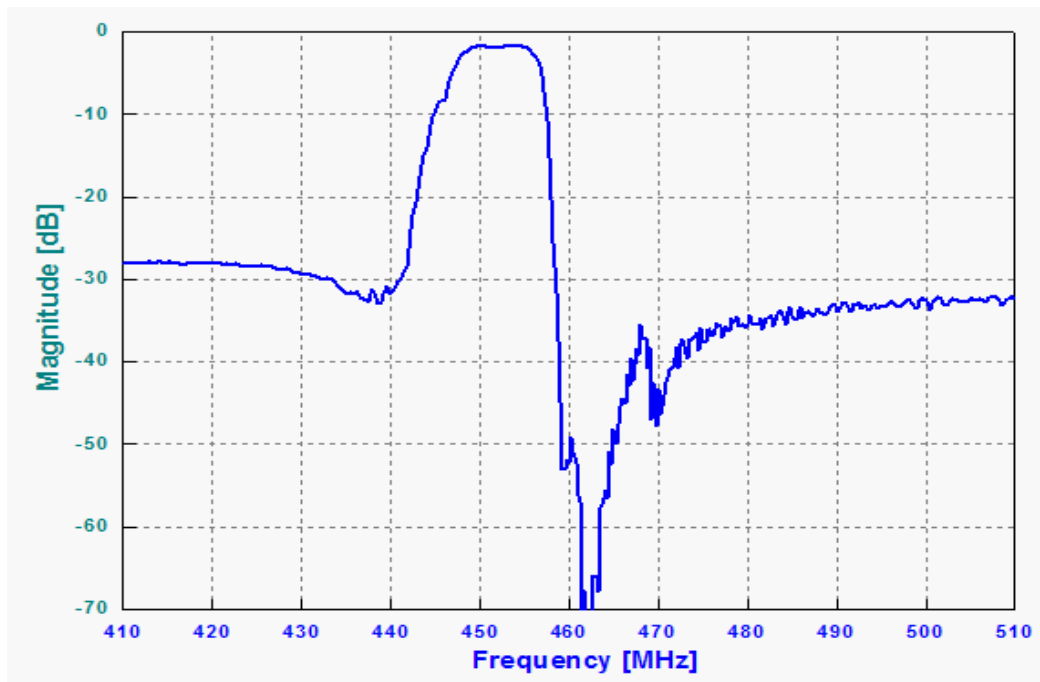
B: Output

A, C, D, F: Ground

△ : Year Code (2010->A, 2011->B, ..., 2015->F, 2016->G)

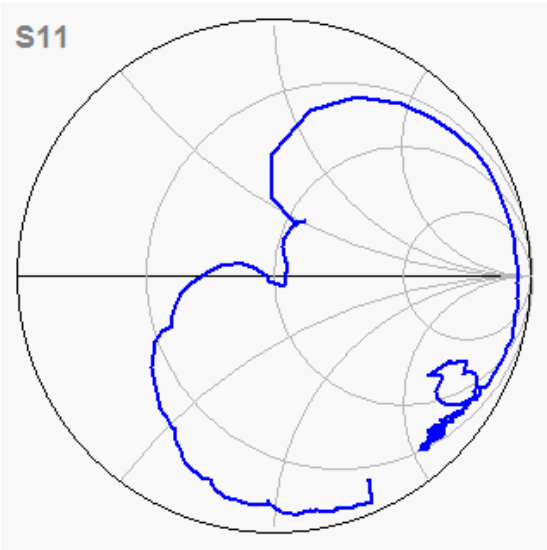
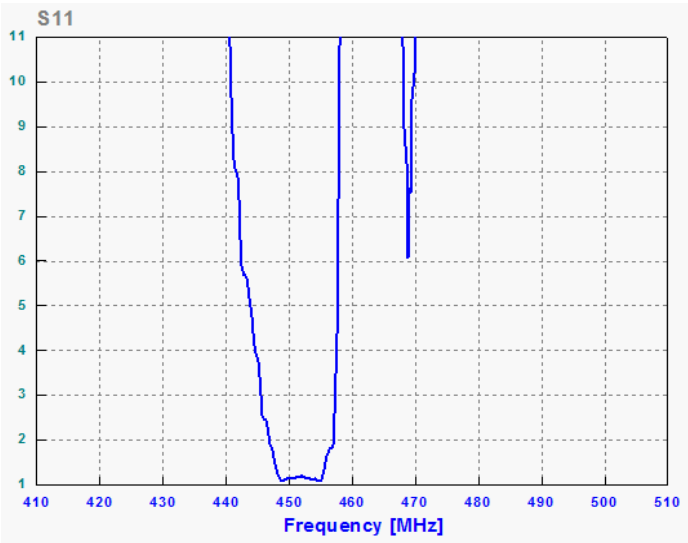
□ : Month Code (1~9, 10->A, 11->B, 12->C)

E. Frequency Characteristics:

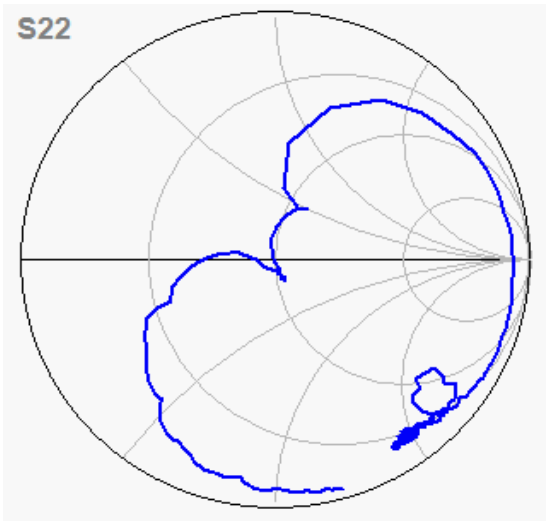
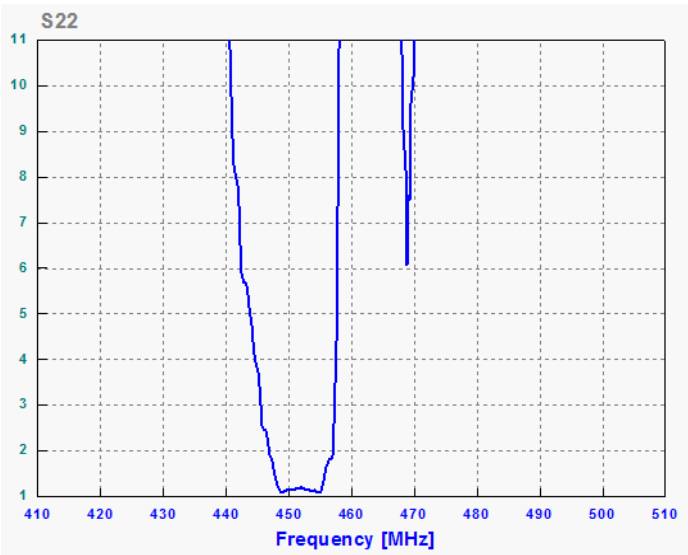


Reflection Functions:

S11

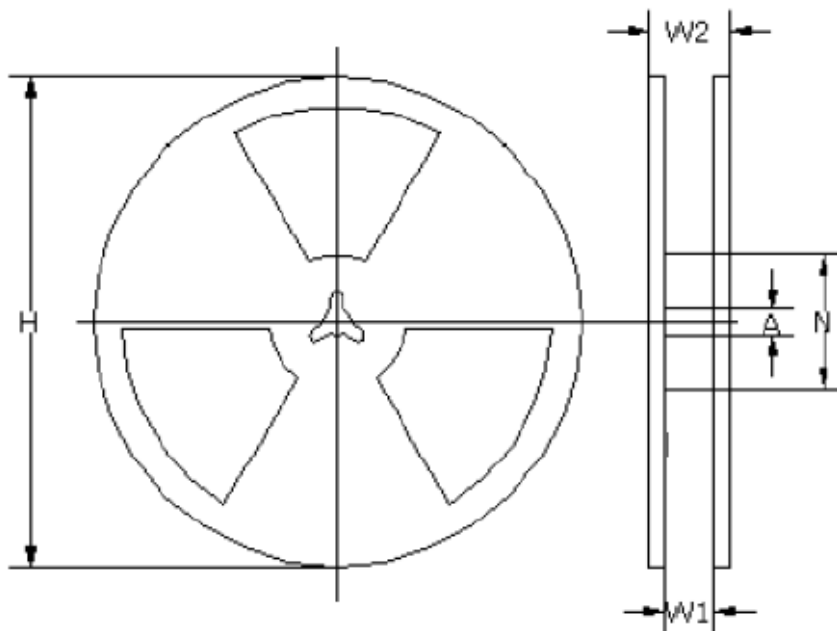


S22



F. PACKING:

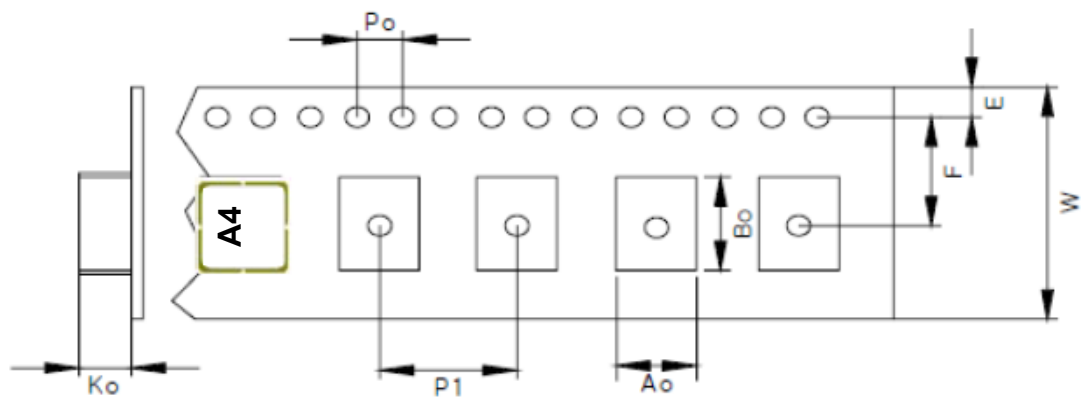
1. REEL DIMENSION



(Unit : mm)

A	N	H	W1	W2
$\Phi 13 \pm 0.5$	$\Phi 62 \pm 1.0$	$\Phi 330.0 \pm 1.0$	12.0 ± 1.0	16.0 ± 1.0

2. TAPE DIMENSION



(Unit : mm)

A	B	K0	W	E	F	P0	P1
3.4 ± 0.1	3.4 ± 0.1	1.4 ± 0.1	12.0 ± 0.3	1.75 ± 0.1	5.5 ± 0.1	4.0 ± 0.1	8.0 ± 0.1

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.

