



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

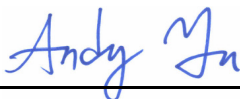
Product Description: SAW Filter 942.5 MHz for Mobile Communication

TST Parts No.: TA0218A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau 

Approval by: _____ Andy Yu 

Date: _____ 2019/08/19

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.



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

SAW Filter 942.5 MHz for Mobile Communication

MODEL NO.: TA0218A

REV. NO.:5.0

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C
3. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS :

Singled to Balanced operation

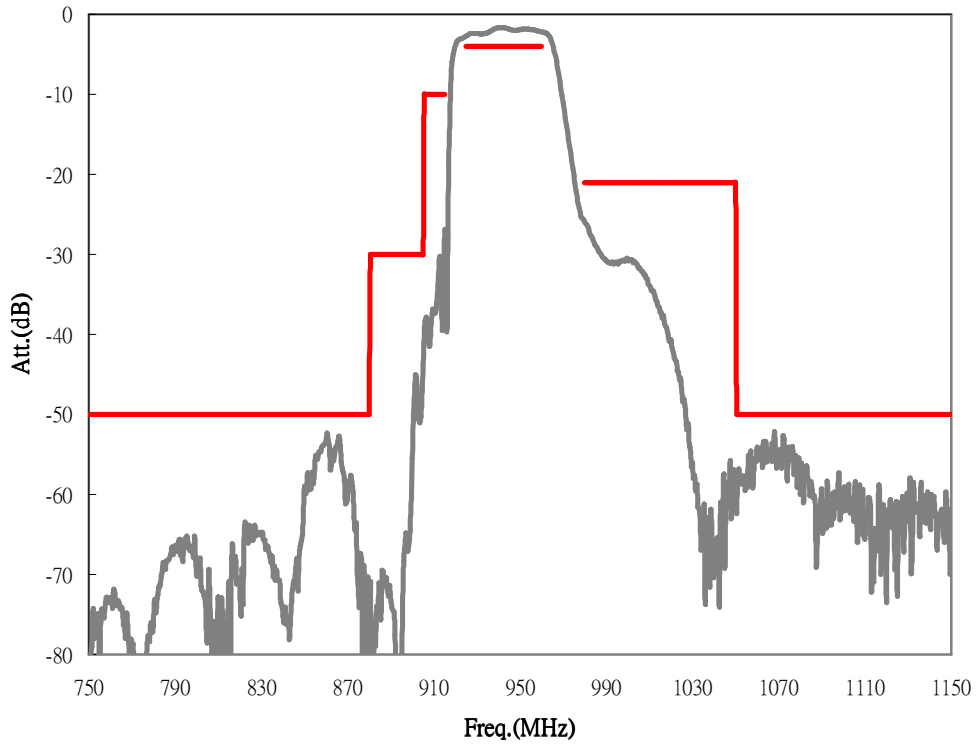
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 150 \Omega // 70 \text{ nH}$

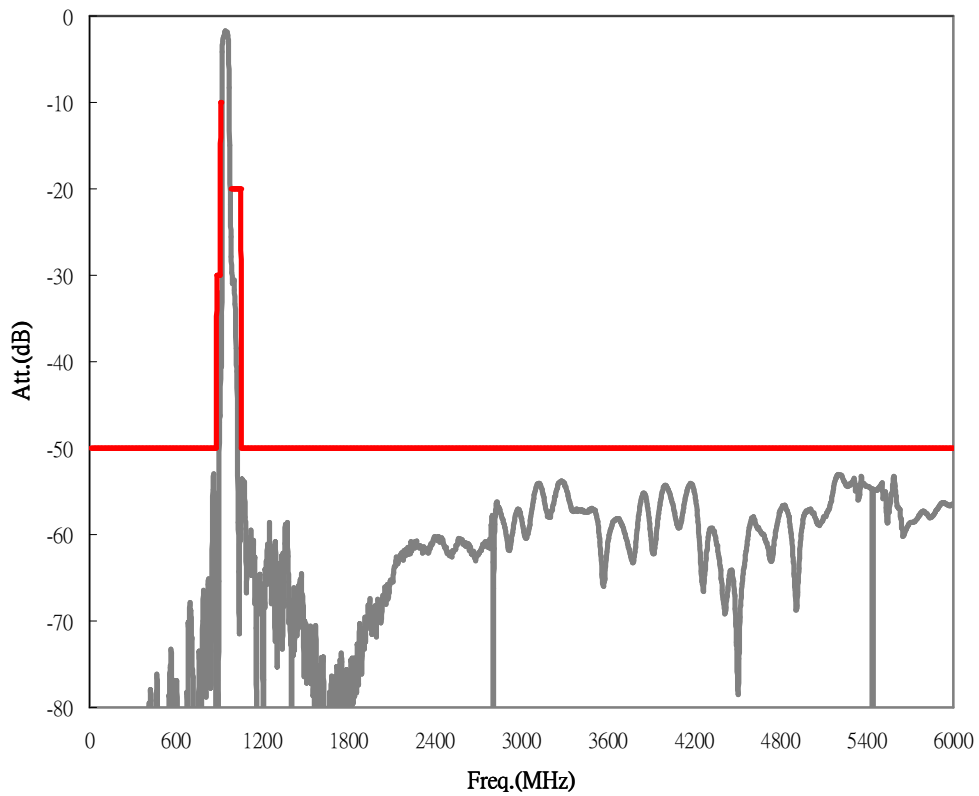
Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	942.5	-	-
Insertion loss (925~960 MHz) I.L. (dB)	-	2.8	4.0	-
Ripple (925~960 MHz) (dB)	-	1.0	2.4	-
Input VSWR (925~960 MHz)	-	1.8	2.5	-
Output VSWR (925~960 MHz)		1.8	2.5	
Attenuation: (Reference level from 0 dB)				
0 ~ 880 MHz (dB)	50	52	-	-
880 ~ 905 MHz (dB)	30	44	-	-
905 ~ 915 MHz (dB)	10	27	-	-
980 ~ 1050 MHz (dB)	21	27	-	-
1050 ~ 6000 MHz (dB)	50	54	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) (925~960 MHz) (dB)	-1.3	0	1.3	
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) (925~960 MHz) degree	-10	0	10	

C. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

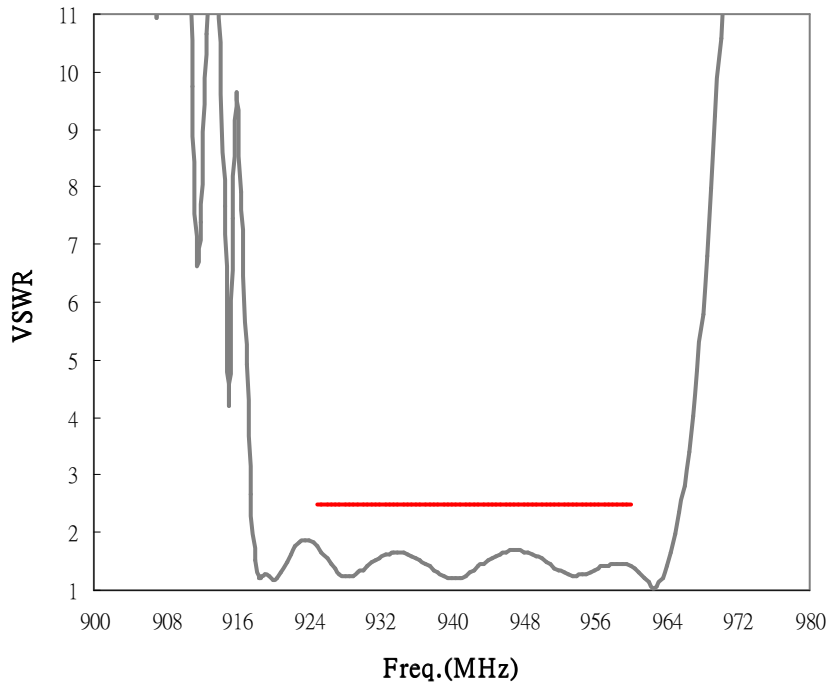


(wideband)

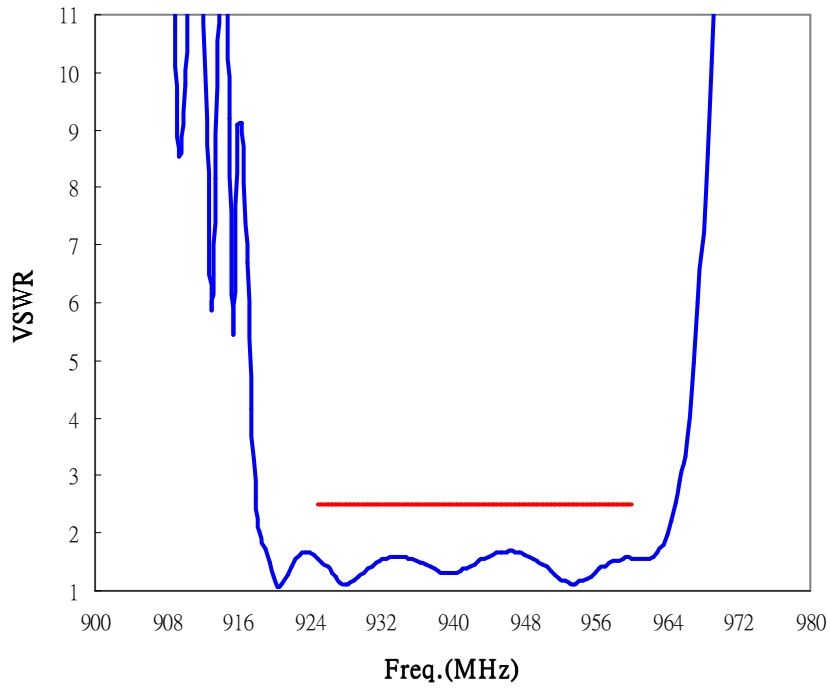


2. VSWR (25 °C)

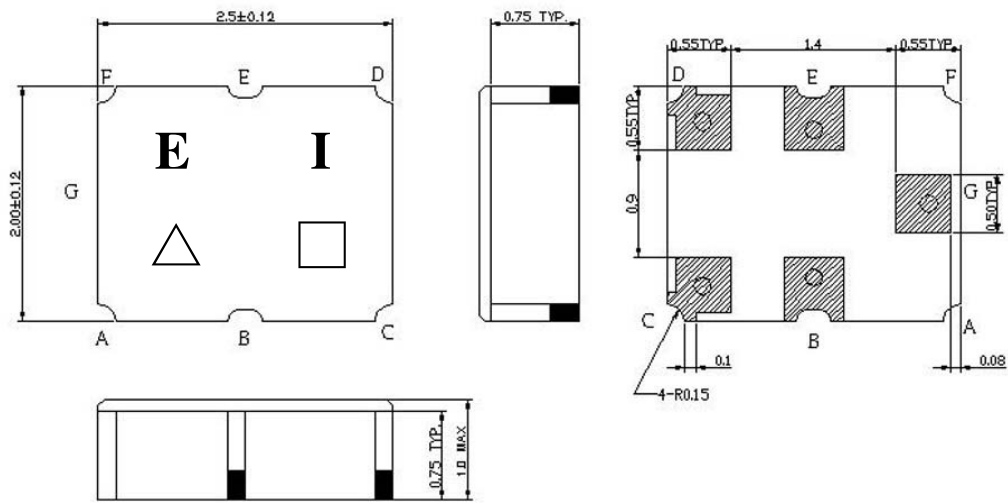
Unbalance Input



Balance Output



D. OUTLINE DRAWING:



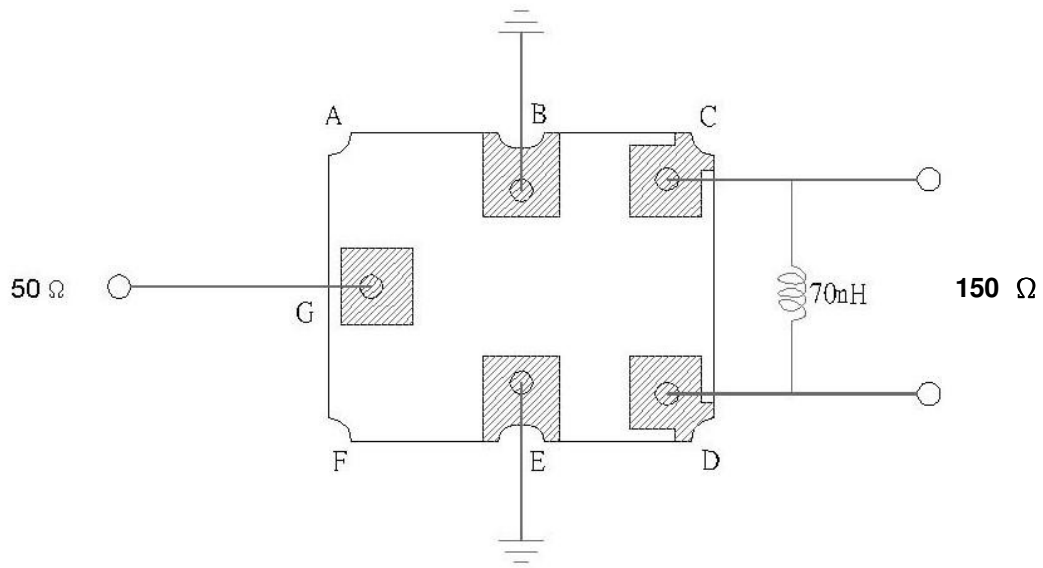
Pin configuration

- G : Unbalance input
- C,D : Balance output
- B,E : Ground
- △ : Year code(2019→9、2020→0…2029→9)
- : Date code
- Unit : mm

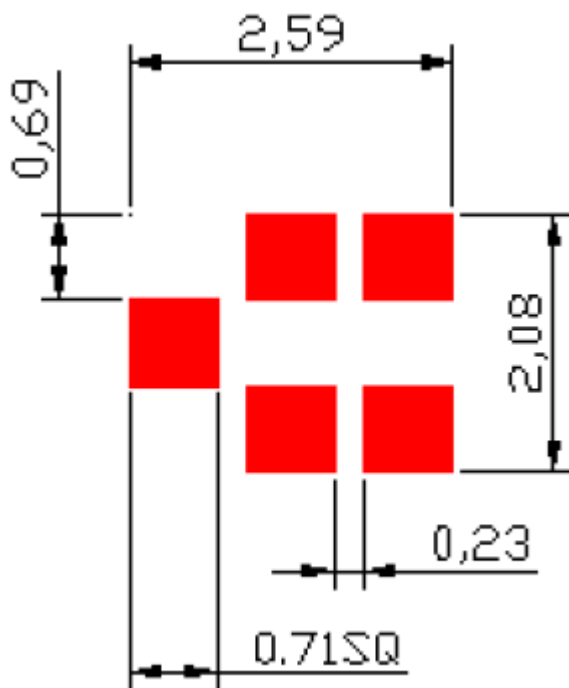
Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. MEASUREMENT CIRCUIT:

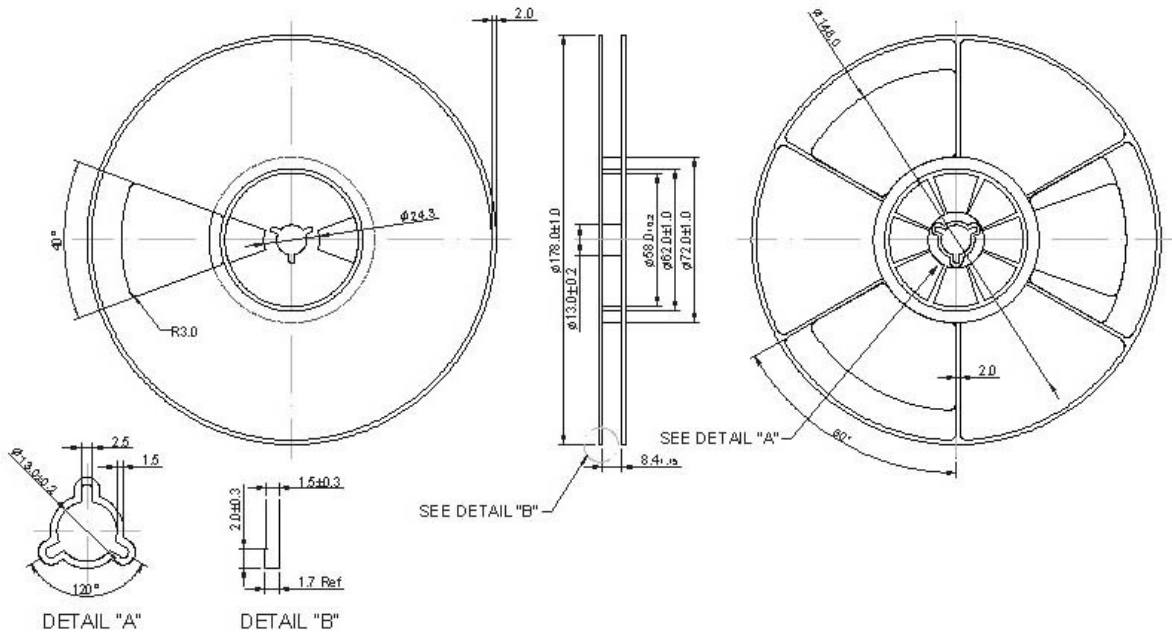


F. PCB FOOTPRINT:

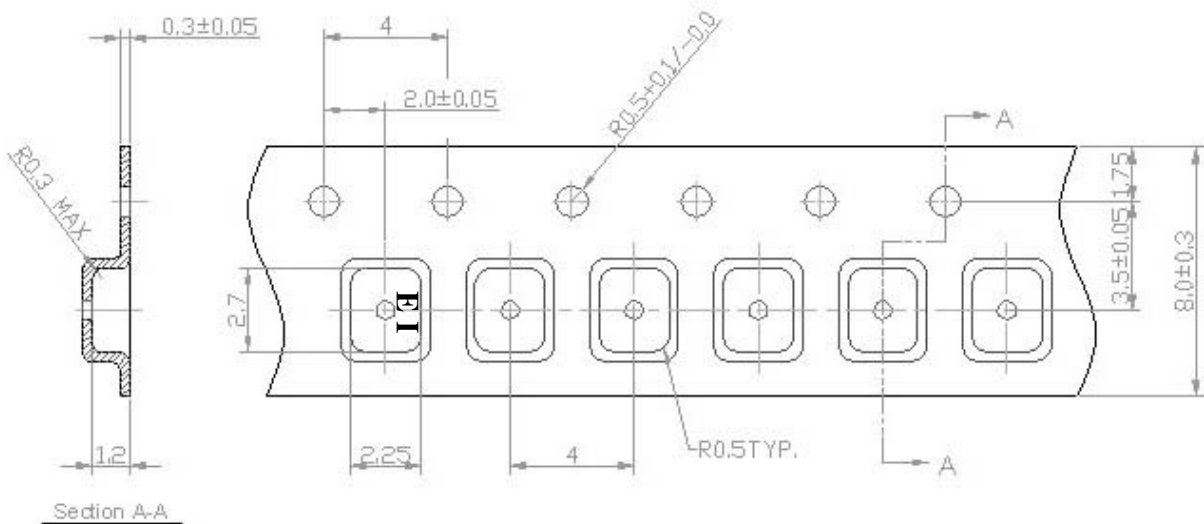


G. PACKING:

1. REEL DIMENSION



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.

