



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 Specification Approval Sheet

Product Name: SAW Filter 940.5 MHz 39 MHz BW SMD 2.5X2.0 mm

TST Parts No.: TA0434B

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 05, 24 2016

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.

FR-71S03-01

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 940.5 MHz

MODEL NO.: TA0434B

REV. NO.:2

A. MAXIMUM RATING:

1. Operating Temperature: -30°C ~ +85°C

2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS :

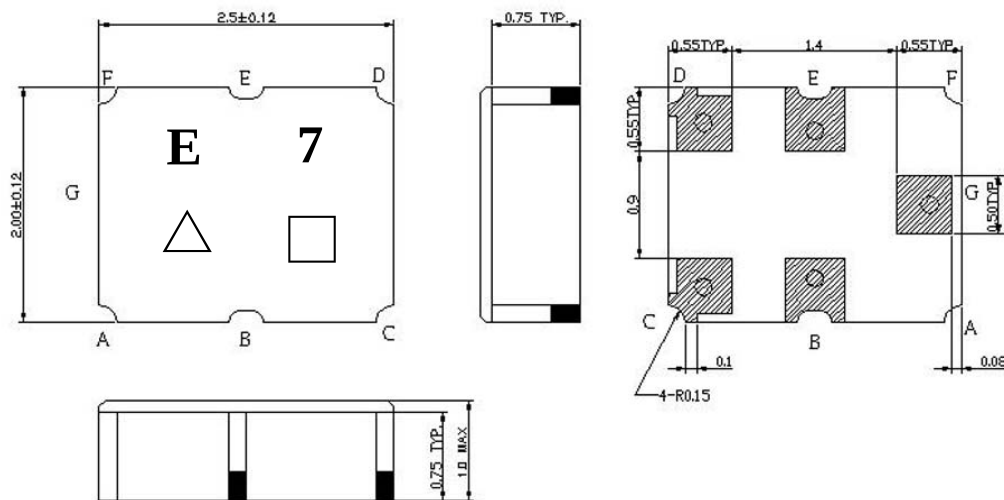
Electrostatic Sensitive Device (ESD)

Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \Omega$ Terminating load impedance : $Z_L = 150 \Omega // 50 \text{ nH}$

Item			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_c	MHz	-	940.5	-	-
Insertion loss(921~960 MHz) I.L.		(dB)	-	2.7	4.3	-
Ripple (921~960 MHz)		(dB)	-	1.0	2.4	-
Input VSWR (921~960 MHz)			-	1.8	2.5	-
Output VSWR (921~960 MHz)			-	1.8	2.5	
Attenuation:(Reference level from 0 dB)						
0 ~ 880	MHz	(dB)	50	55	-	-
880 ~ 900	MHz	(dB)	28	44	-	-
900 ~ 910	MHz	(dB)	16	35	-	-
980 ~ 1000	MHz	(dB)	20	29	-	-
1000 ~ 1050	MHz	(dB)	28	34	-	-
1050 ~ 3000	MHz	(dB)	50	59	-	-
3000 ~ 4500	MHz	(dB)	40	48	-	-
4500 ~ 5700	MHz	(dB)	30	42	-	-
Symmetry in band (referenced to the matched operating condition)						
Output amplitude balance ($ S_{31}/S_{21} $)		(dB)	-1.8	0	1.8	-
(921~960 MHz)						
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$)		degree	-12	0	12	-
(921~960 MHz)						

C. OUTLINE DRAWING:



Pin configuration

G : Unbalance input

C,D : Balance output

B,E : Ground

Unit : mm

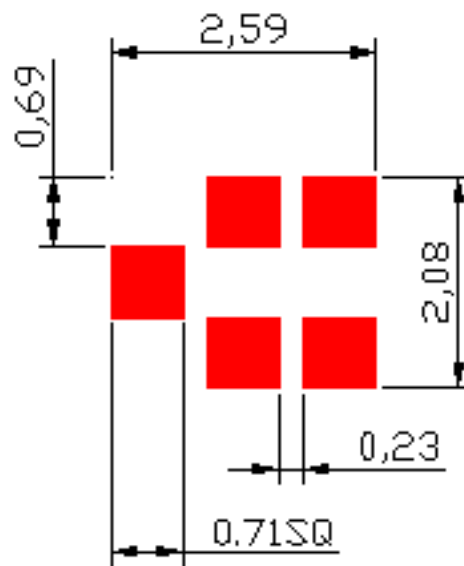
△ : Year Code (2016->6, ..., 2019->9)

□ : Date Code (Follow the table from planner each year)

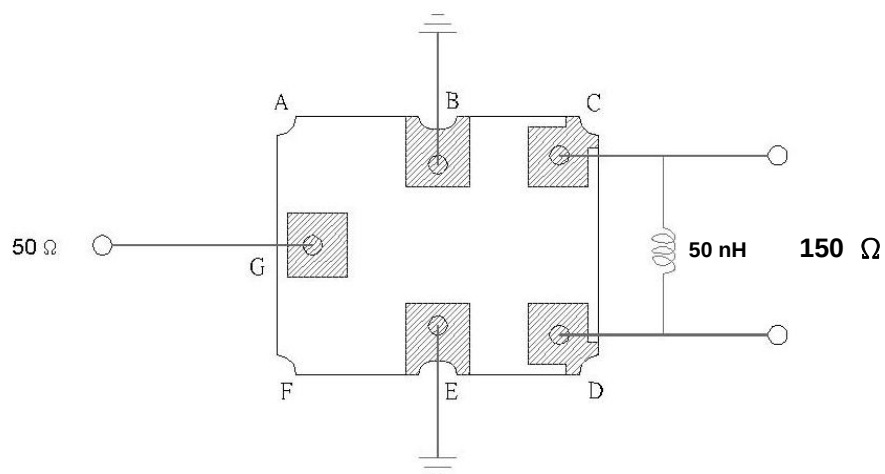
Date Code Table

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

D. PCB Footprint:

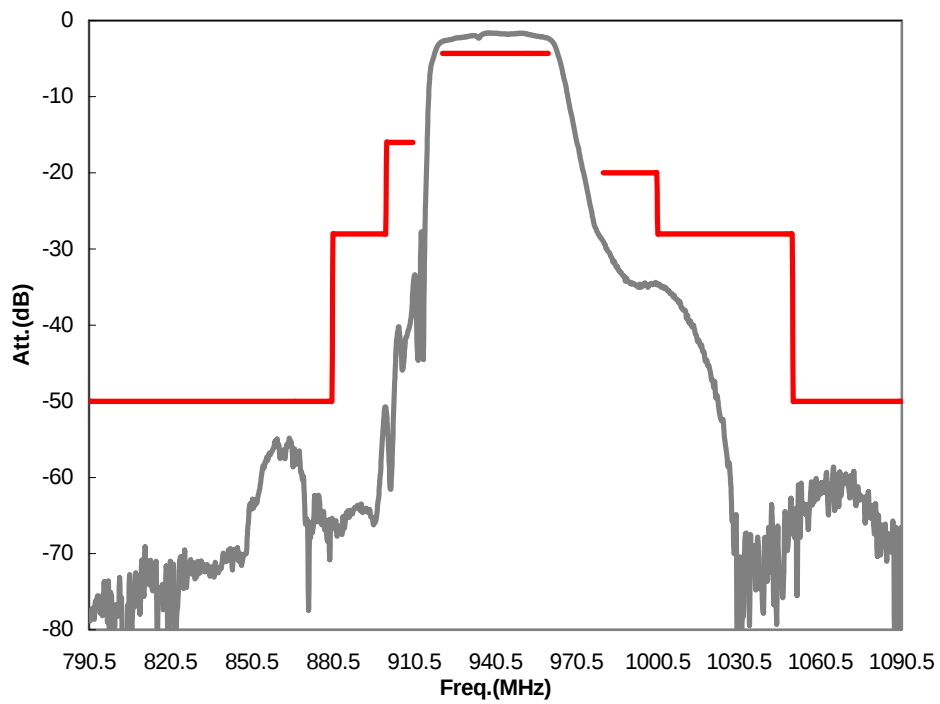


E. MEASUREMENT CIRCUIT:

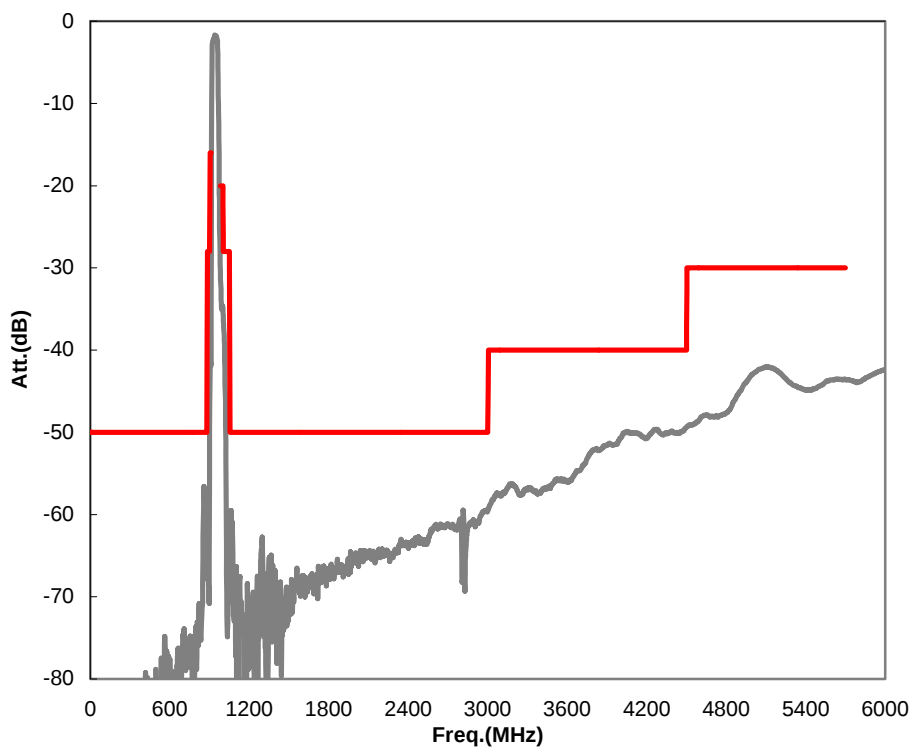


F. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

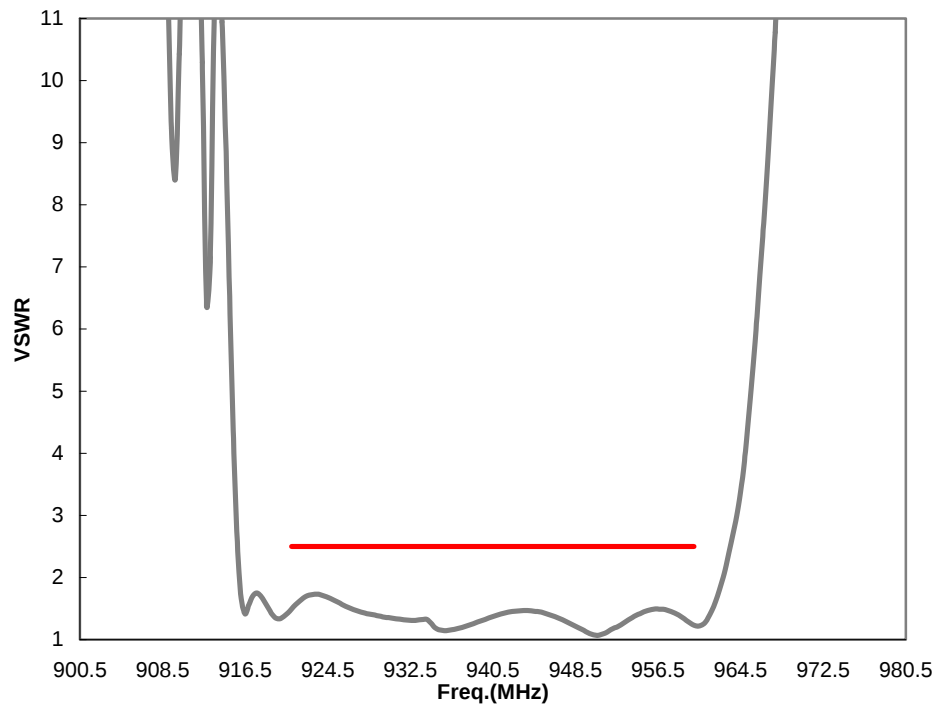


(wideband)

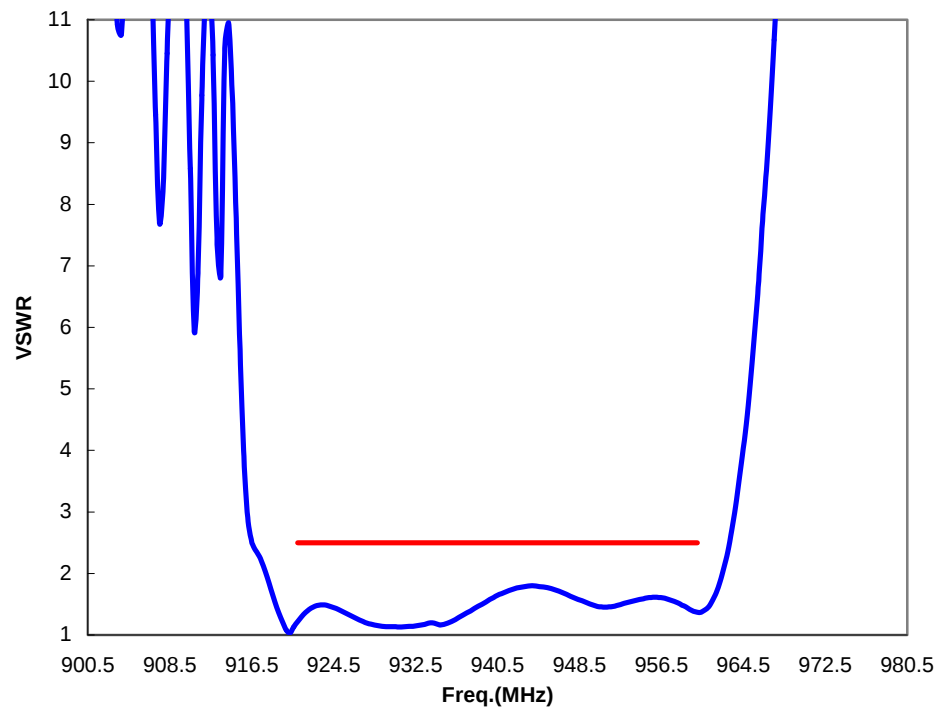


2. VSWR (25 °C)

Unbalance Input



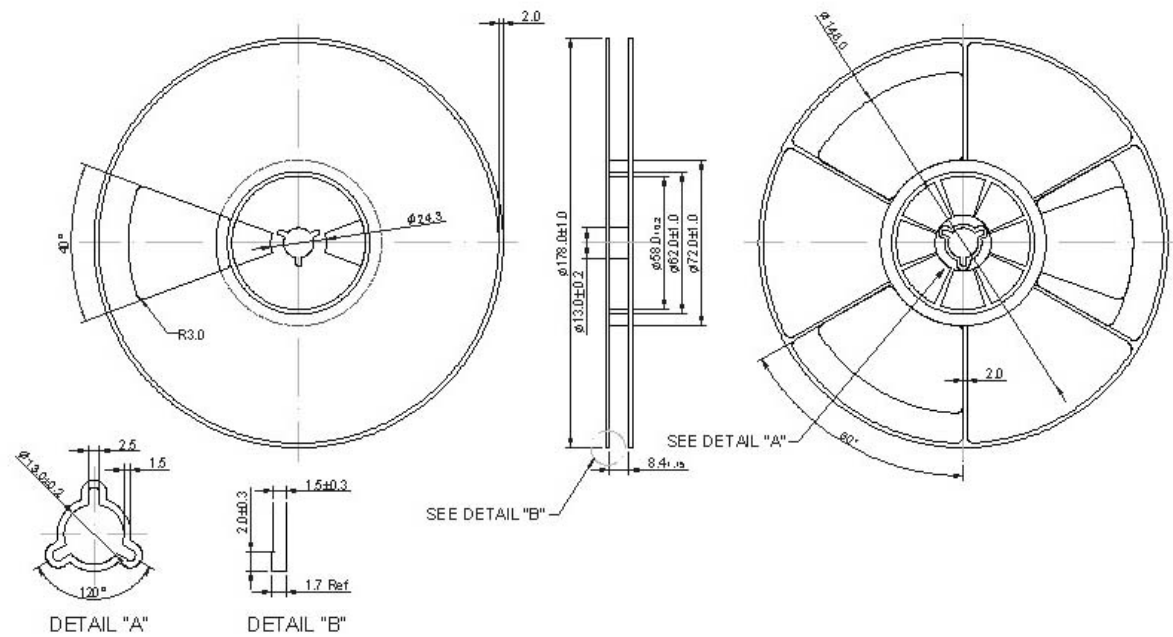
Balance Output



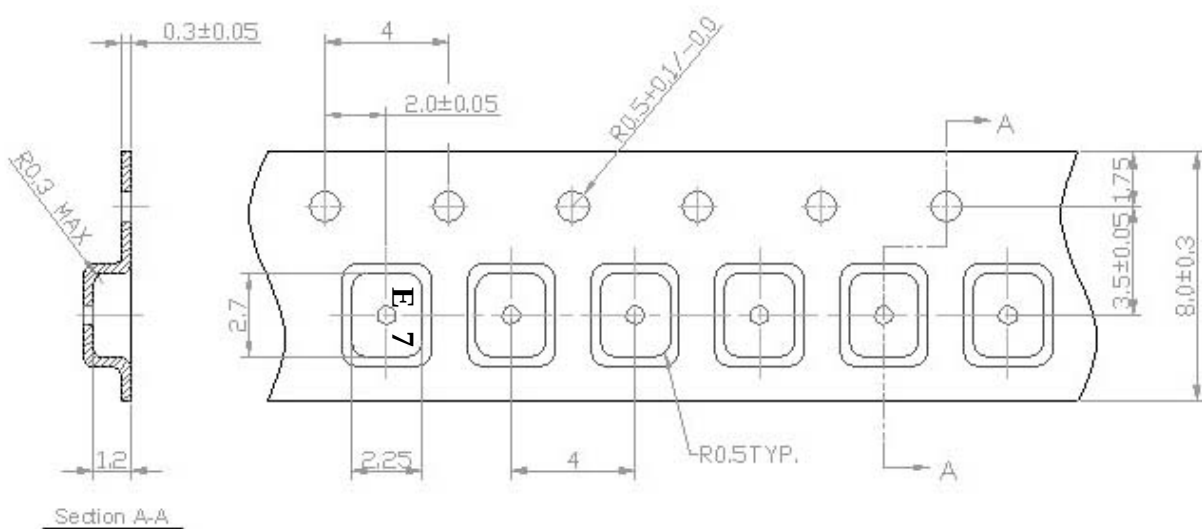
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



Direction of Feed
→

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.

