



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 947.5 MHz SMD 3.0X3.0 mm (BW=25MHz)

TST Part No.: TA0361A

Customer Part No.: _____

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

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 1, 14, 2015

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 947.5 MHz for Mobile Communication

MODEL NO.: TA0361A

REV. NO.:2

A1. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: 25°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B1. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	F_c (dB)	-	947.5	-
Insertion loss (935~960 MHz)	IL (dB)	-	2.4	3.0
Amplitude ripple (935~960 MHz)	(dB)	-	1.0	2.0
Attenuation (Reference level from 0 dB)				
D.C. ~ 890 MHz	(dB)	28.0	32.0	-
890 ~ 915 MHz	(dB)	20.0	35.0	-
980 ~ 1025 MHz	(dB)	15.0	30.0	-
1025 ~ 2000 MHz	(dB)	30.0	34.5	-
Input/Output VSWR (935~960 MHz)		-	1.9	2.1
Source impedance	Z _s (Ω)	-	50	-
Load impedance	Z _L (Ω)	-	50	-

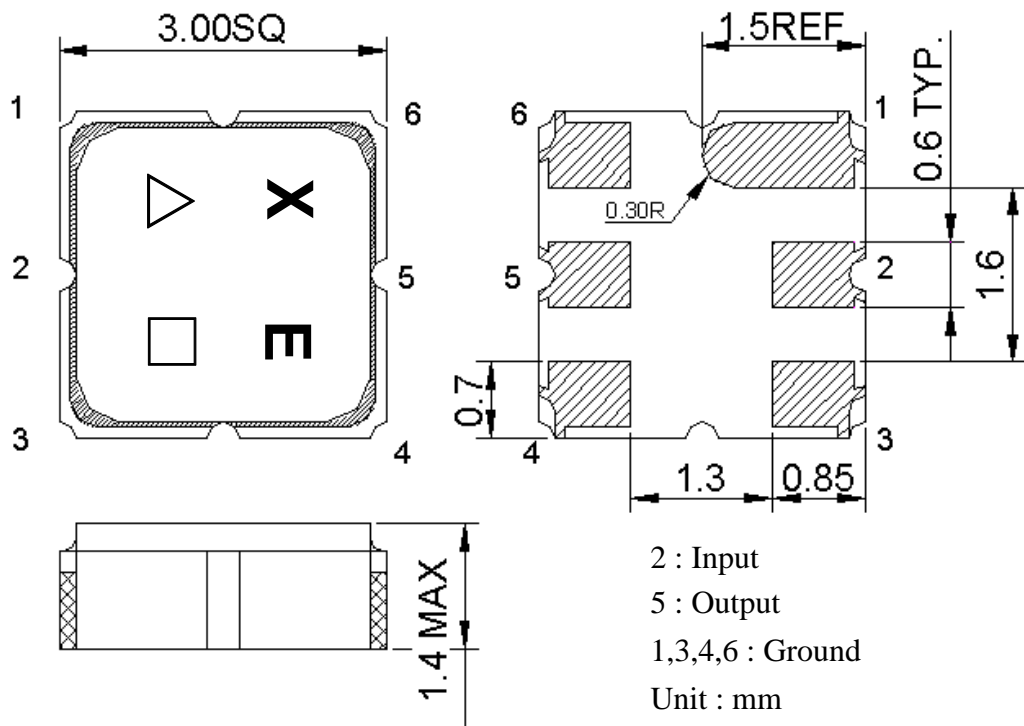
A2. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B2. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	Fc (dB)	-	947.5	-
Insertion loss (935~960 MHz)	IL (dB)	-	2.4	3.0
Amplitude ripple (935~960 MHz)	(dB)	-	1.0	2.0
Attenuation (Reference level from 0 dB)				
D.C. ~ 890 MHz	(dB)	28.0	32.0	-
890 ~ 915 MHz	(dB)	20.0	35.0	-
980 ~ 1025 MHz	(dB)	15.0	30.0	-
1025 ~ 2000 MHz	(dB)	30.0	34.5	-
Input/Output VSWR (935~960 MHz)		-	2.0	2.2
Source impedance	Z _s (Ω)	-	50	-
Load impedance	Z _L (Ω)	-	50	-

C.OUTLINE DRAWING:



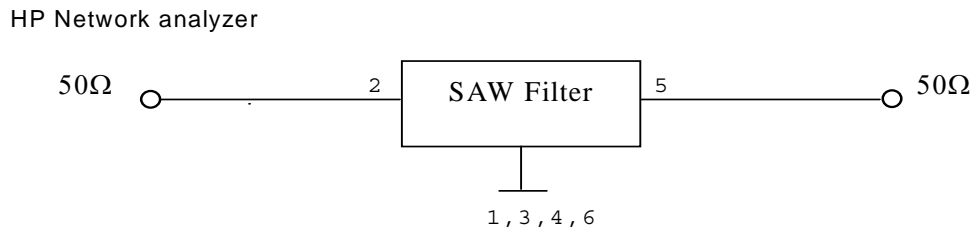
△ : Year Code (2009->9, 2010->0,..., 2018->8)

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

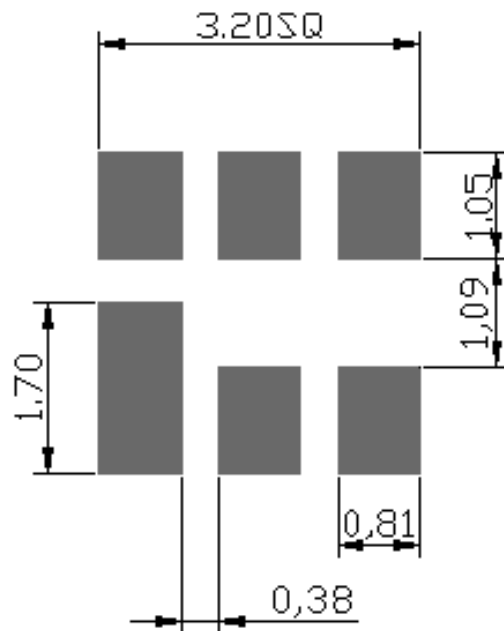
Date Code Table

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

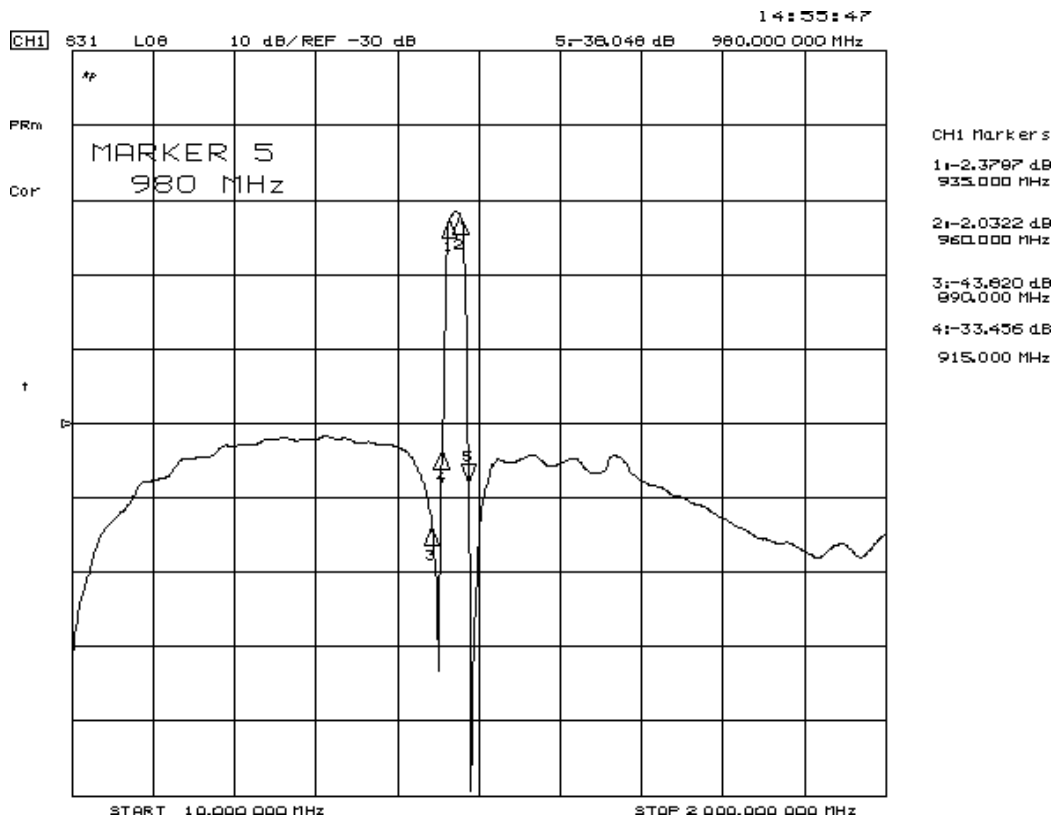
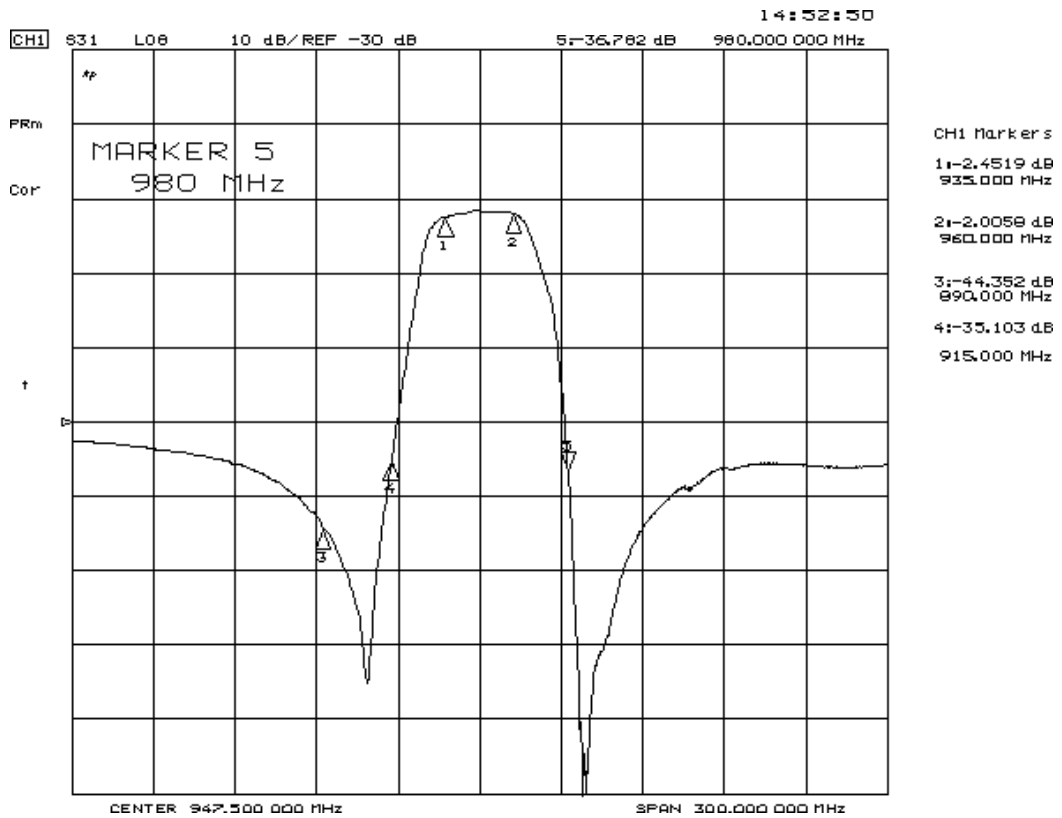
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

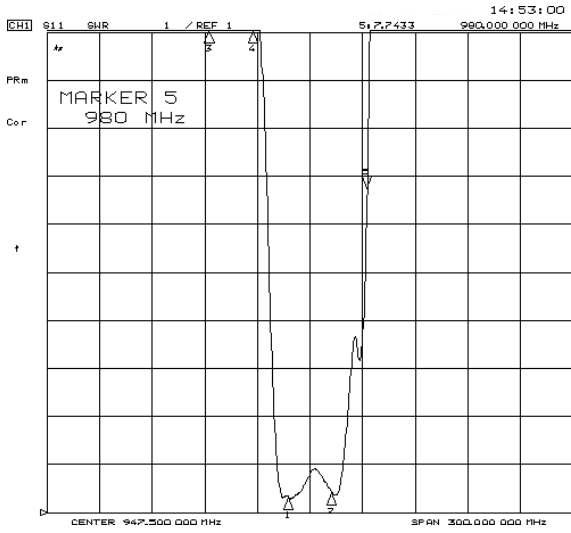


F. Frequency Characteristics : Transfer function



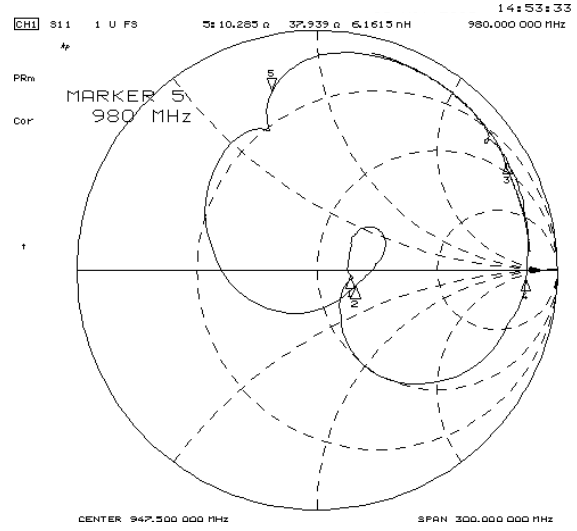
Reflections Functions :

S11



CH1 Markers

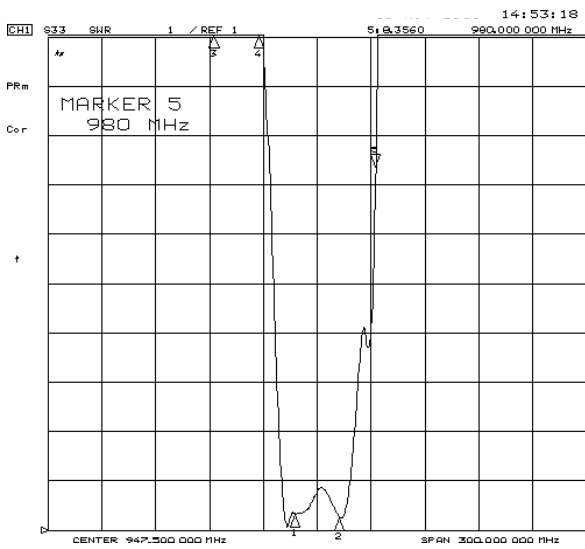
1: 1.3296	935,000 MHz
2: 1.4602	960,000 MHz
3: 22.140	890,000 MHz
4: 14.493	915,000 MHz



CH1 Markers

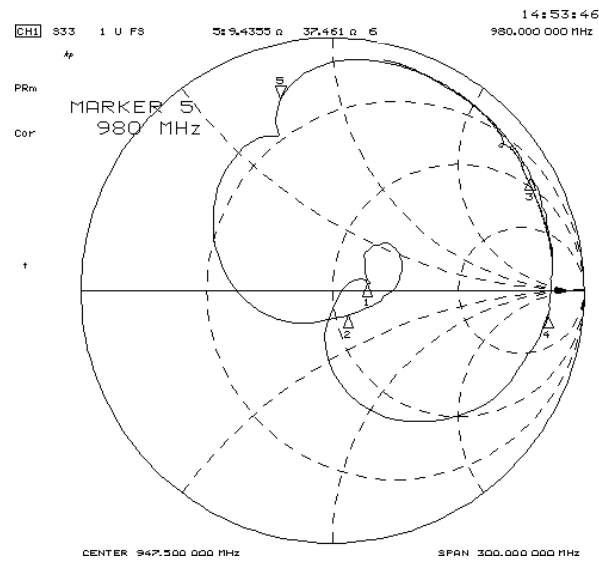
1: 66.121	-31.236	935,000 MHz
2: 68.473	-9.1367	960,000 MHz
3: 33.203	182.27	890,000 MHz
4: 67.225	-179.94	915,000 MHz

S22



CH1 Markers

1: 1.3329	935,000 MHz
2: 1.2607	960,000 MHz
3: 20.204	890,000 MHz
4: 13.595	915,000 MHz



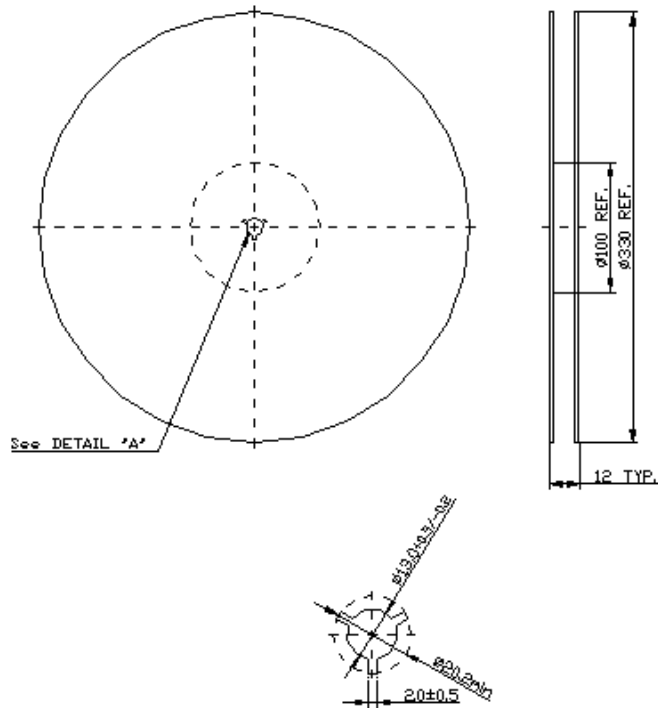
CH1 Markers

1: 66.121	3.9102	935,000 MHz
2: 55.615	-10.852	960,000 MHz
3: 36.133	181.57	890,000 MHz
4: 430.22	-325.31	915,000 MHz

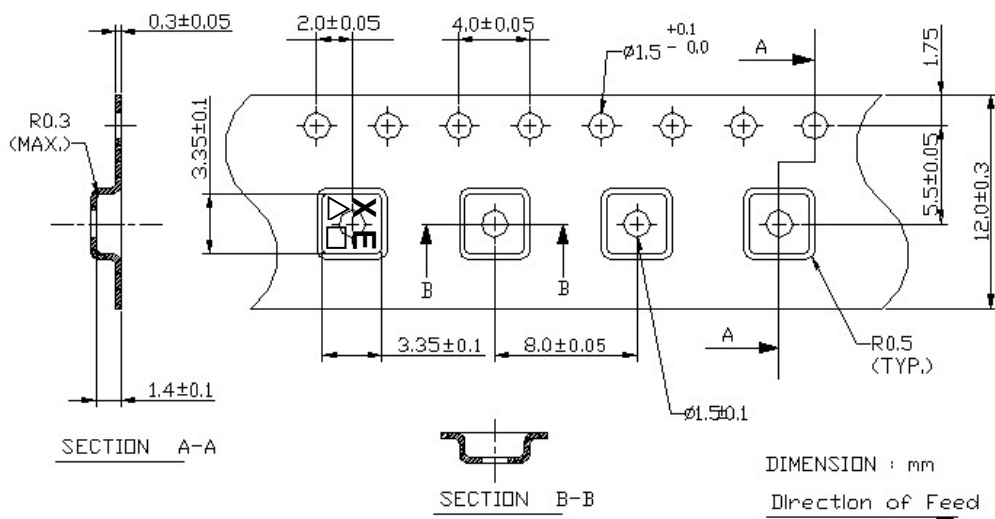
G. PACKING:

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.

