



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 2442 MHz SMD 3.0X3.0 mm

TST Part No.: TA0222B

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 4, 24, 2012

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 2442 MHz

MODEL NO.:TA0222B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

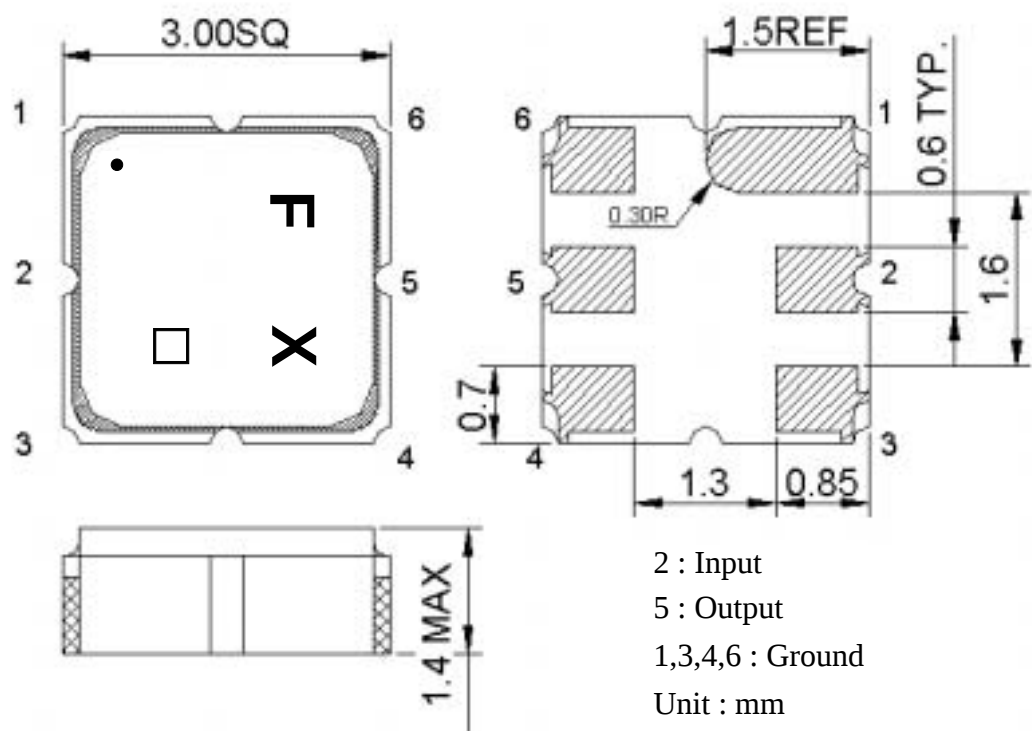
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single ended) : $Z_s = 50 \Omega$

Terminating load impedance (single ended) : $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fr	MHz	2437	2442	2447	-
Minimum Insertion loss (2437~2447MHz) IL_{min}	dB	-	1.9	3.0	-
Pass Bandwidth (relative to IL_{min}) BW₃	MHz	55	78	-	-
Amplitude Ripple (Fr +/- 12.5 MHz)	dB	-	0.6	2.0	-
Group Delay Ripple (Fr +/- 12.5 MHz)	ns	-	5	20	-
Group Delay (Fr +/- 12.5 MHz)	ns	-	14	50	-
VSWR (Fr +/- 12.5 MHz)		-	1.6	2.5	-
Attenuation (reference level from 0 dB)					
D.C. ~ 2300 MHz	dB	37	41	-	-
2300 ~ 2367 MHz	dB	20	31	-	-
2517 ~ 2650 MHz	dB	40	44	-	-
2650 ~ 4000 MHz	dB	25	31	-	-
Human Body Model HBM	V	-	200	-	-
Machine Model MM	V	-	200	-	-
Temperature Coefficient of Frequency	ppm/	-	-36	-	-

C.OUTLINE DRAWING:



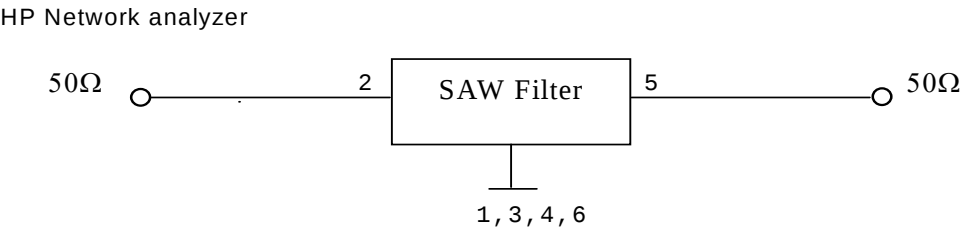
: Year Code (2009->9, 2010->0,..., 2018->8)

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

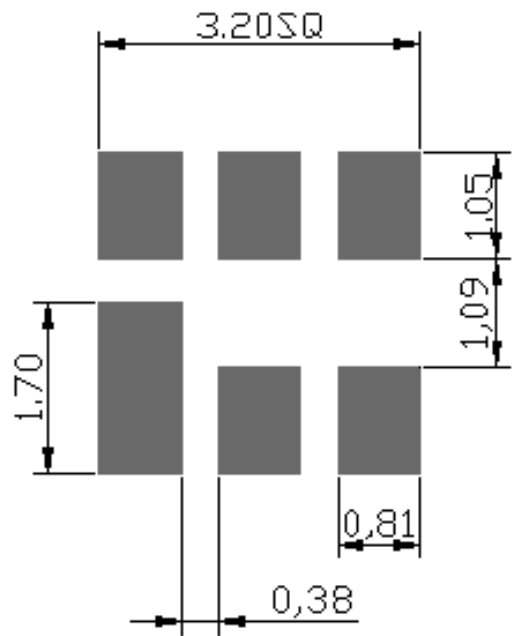
Date Code Table

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

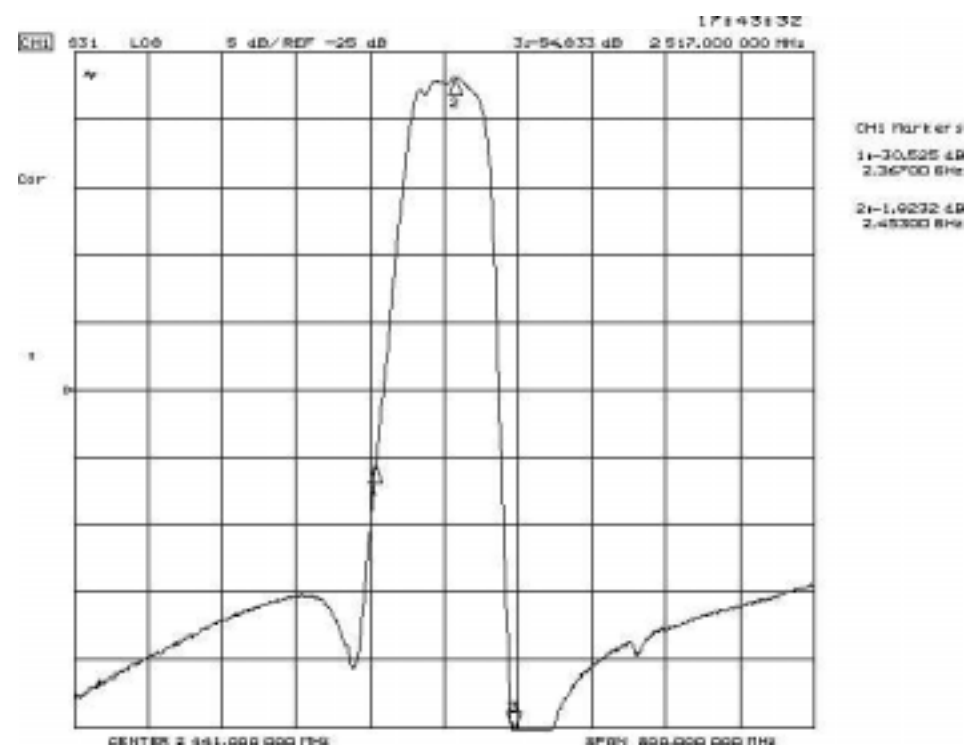
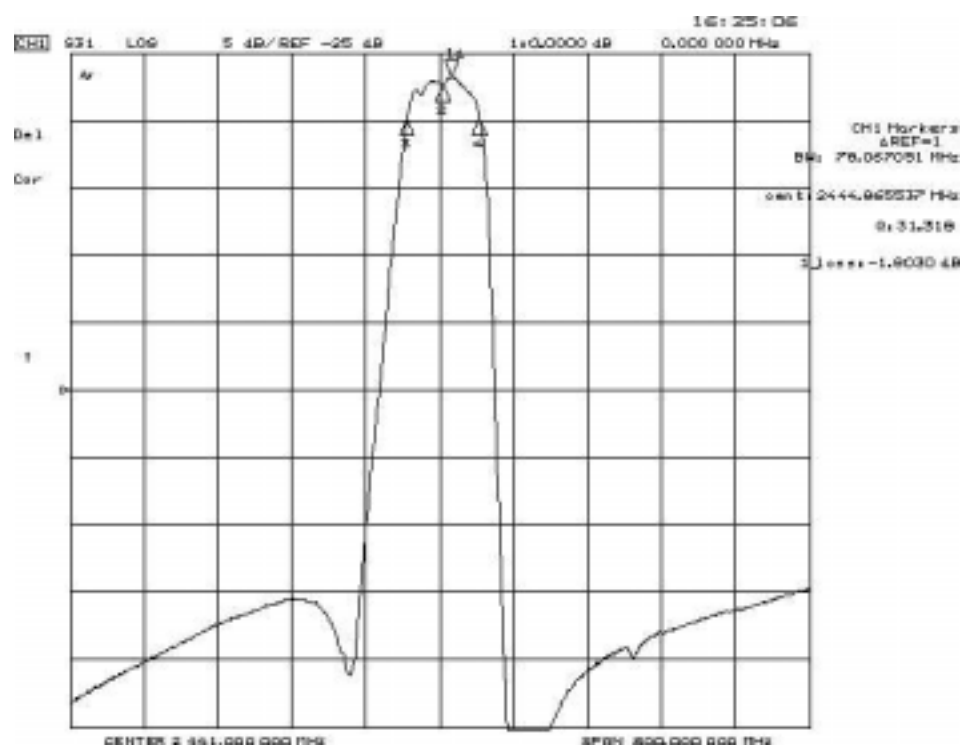
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

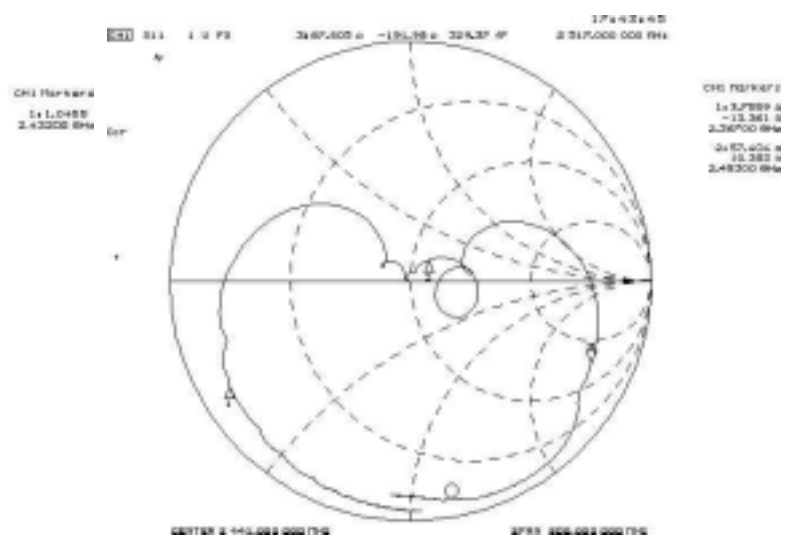
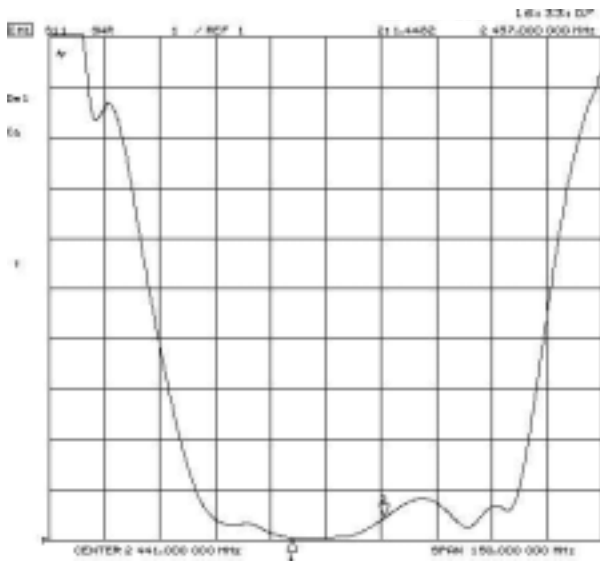


F. Frequency Characteristics :
Transfer function

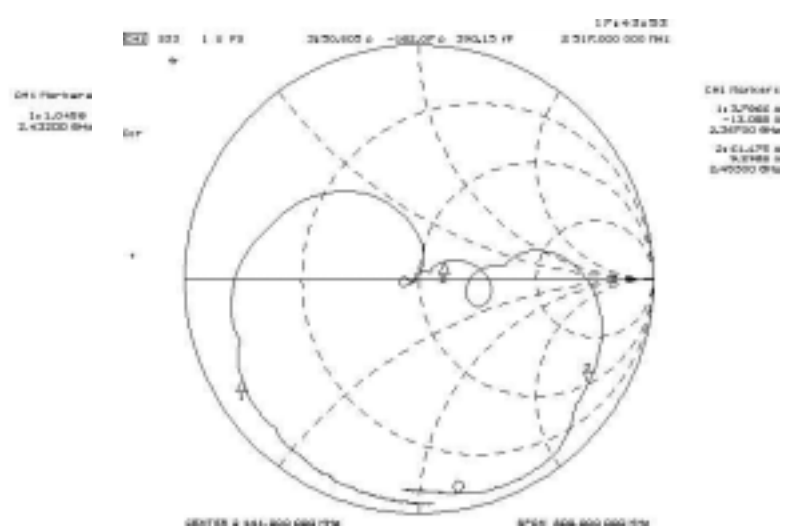
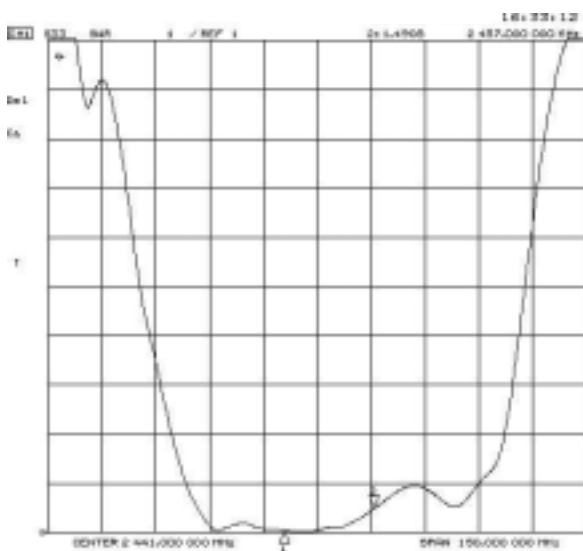


Reflections Functions :

S11 VSWR

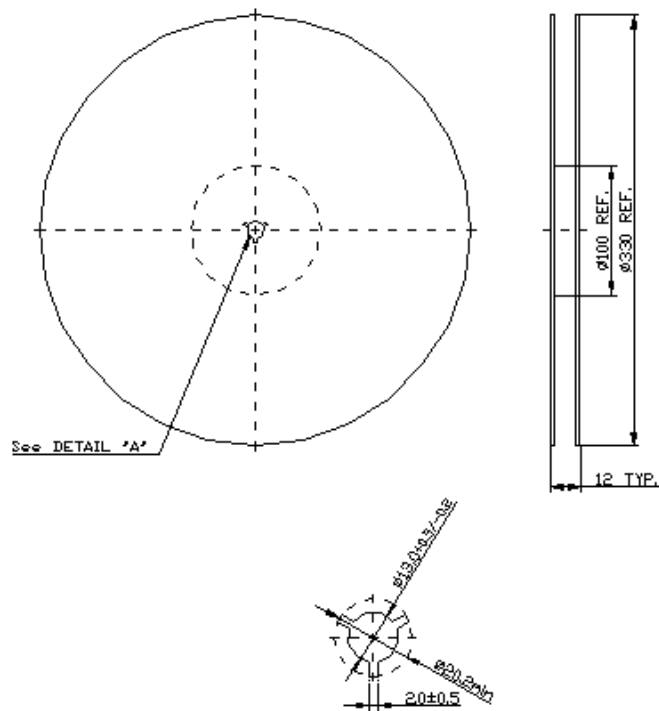


S22 VSWR

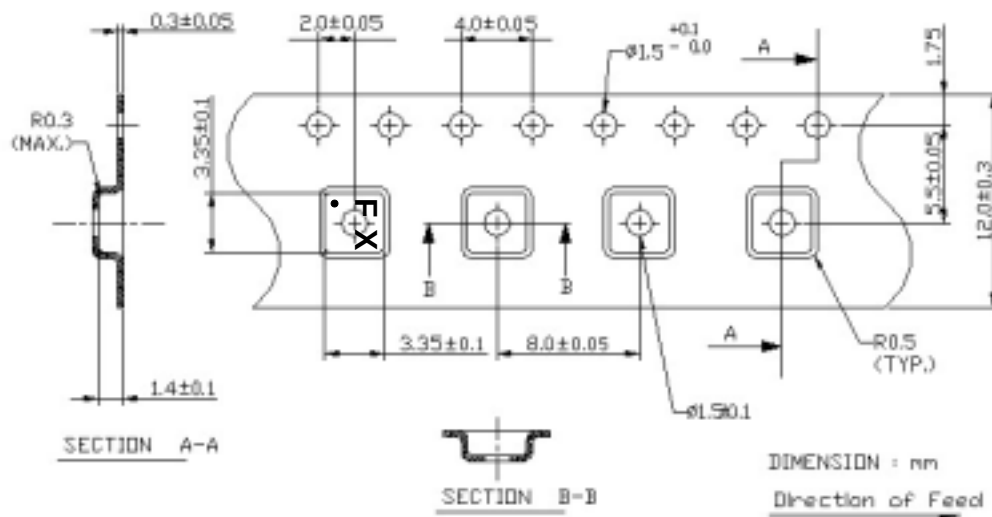


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180 for 60~90 seconds.
2. Ascending time to preheating temperature 150 shall be 30 seconds min.
3. Heating shall be fixed at 220 for 50~80 seconds and at 245~260 peak (min. 10sec).
4. Time : 2 times.

