

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 Name: SAW Filter 2157.5MHz 35MHz Bw SMD 3.0 x 3.0 mm

TST Parts No.: TA0229A

Customer Parts No.: _____

Customer signature required


Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Francis Chen 

Date: _____ 12, 12, 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 2157.5 MHz 35MHz Bw SMD 3.0 x 3.0 mm

MODEL NO.: TA0229A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

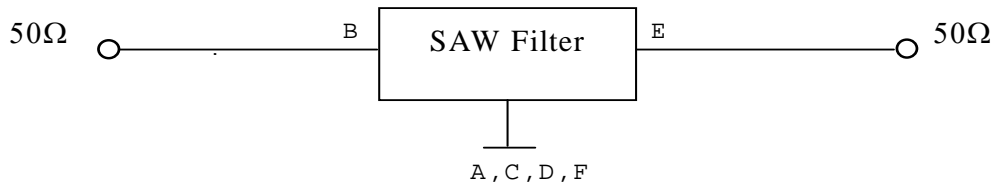
B. ELECTRICAL CHARACTERISTICS:

Characteristics			Specification			Note
			Min.	Typ.	Max	
Center frequency	F_c	MHz	-	2157.5	-	-
Insertion loss	2140~2175 MHz	dB	-	3.1	4.0	-
Amplitude ripple	2140~2175 MHz	dB	-	1.1	2.0	-
V.S.W.R	2140~2175 MHz		-	1.6	2.4	-
Group delay ripple	2140~2175 MHz	ns		7.0	16	
Attenuation:(Reference level from 0 dB)						
	0 ~ 1985MHz	dB	33	42	-	-
	1985 ~ 2085MHz	dB	25	36	-	-
	2230 ~ 2330 MHz	dB	25	51	-	-
	2330 ~ 3435 MHz	dB	31	50	-	-
	3435 ~ 4000 MHz	dB	23	45	-	-
Impedance at F_c	Input	$Z_{IN}=R_{IN}/C_{IN}$	50Ω // 0 PF			1
	Output	$Z_{OUT}=R_{OUT}/C_{OUT}$	50Ω // 0 PF			1

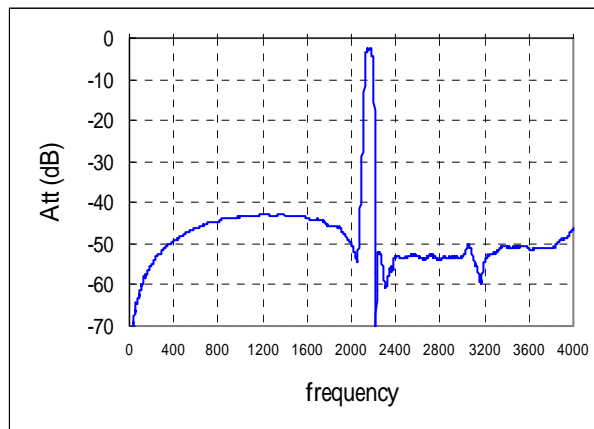
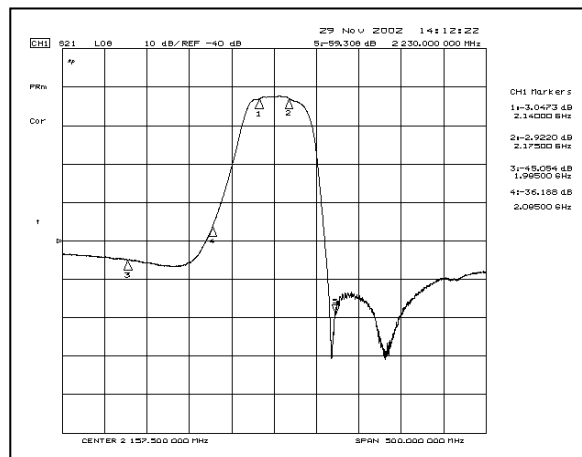
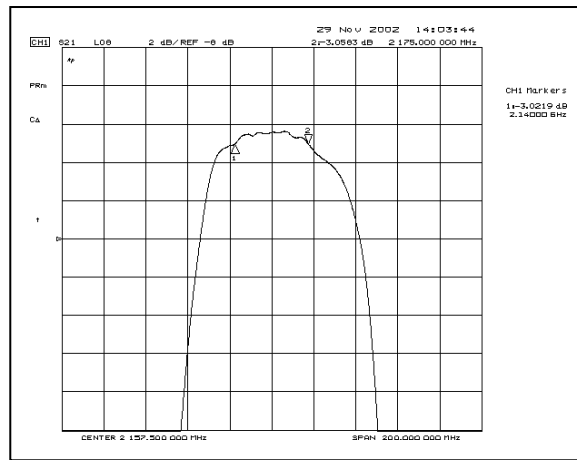
Note1. No matching network required for operation at 50

MEASUREMENT CIRCUIT:

HP Network analyzer

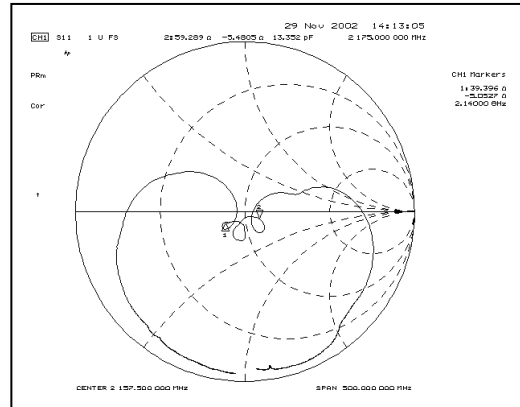
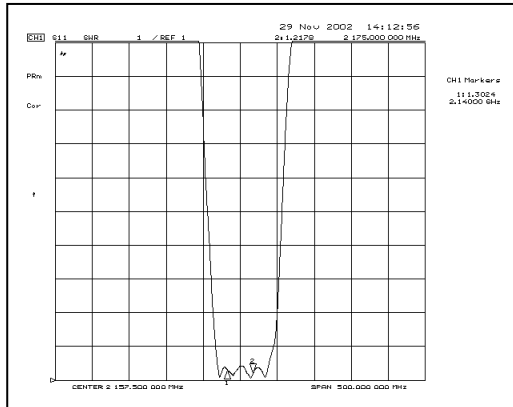


C. Transfer Function :

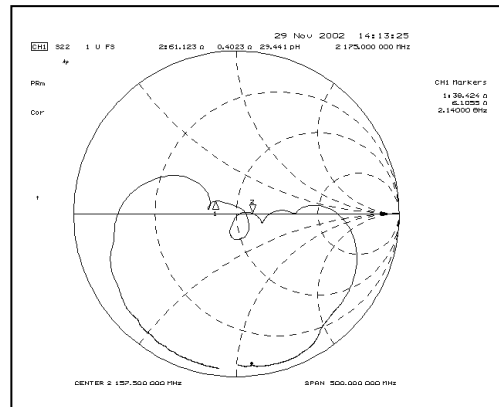
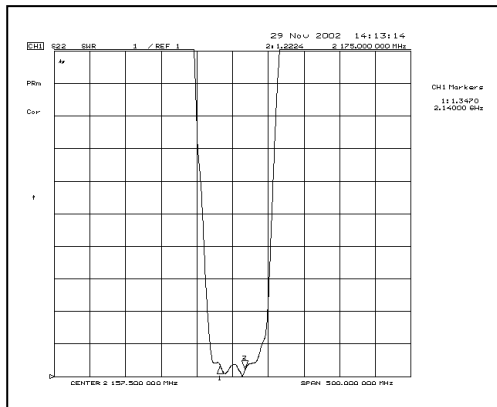


D. Reflections Functions :

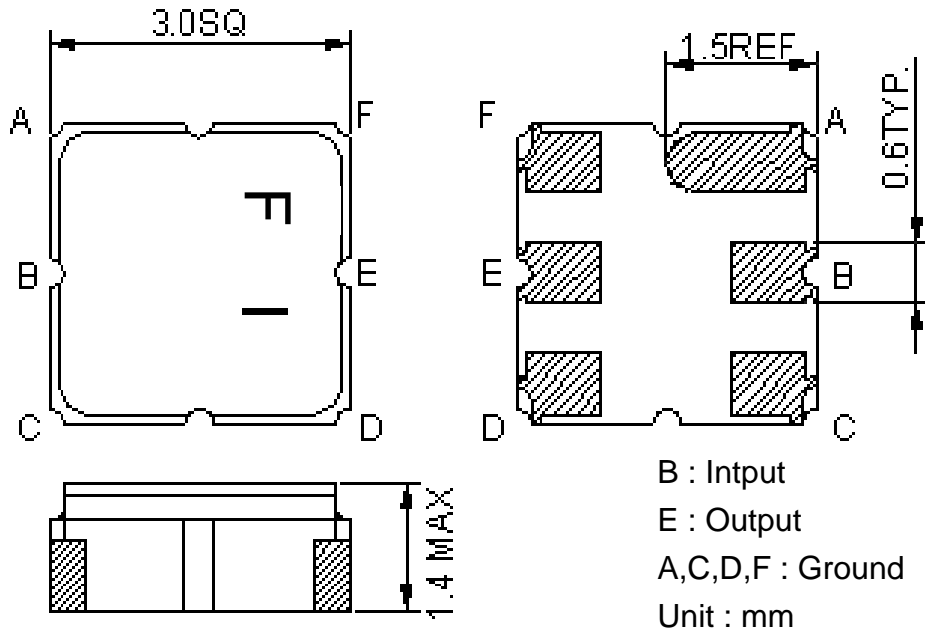
S11



S22



E. OUTLINE DRAWING:



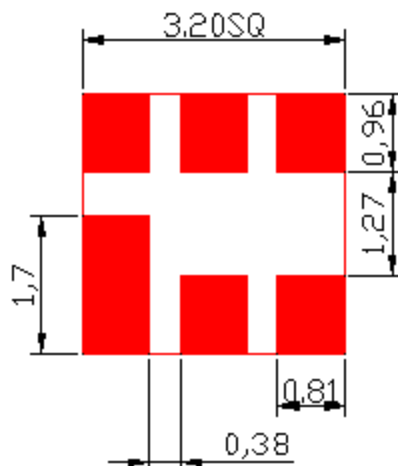
: Year Code (2011->1, 2012->2, ..., 2019->9)

: 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

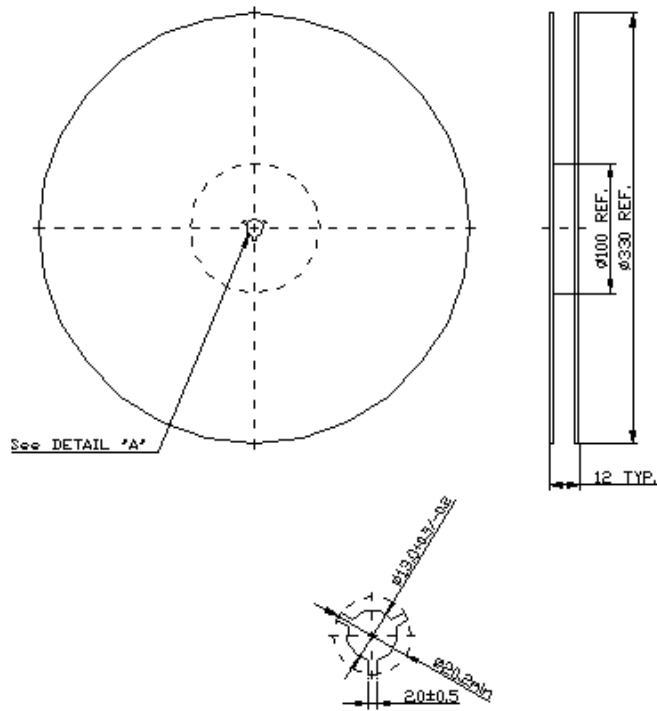
F. LAND PATTERN:



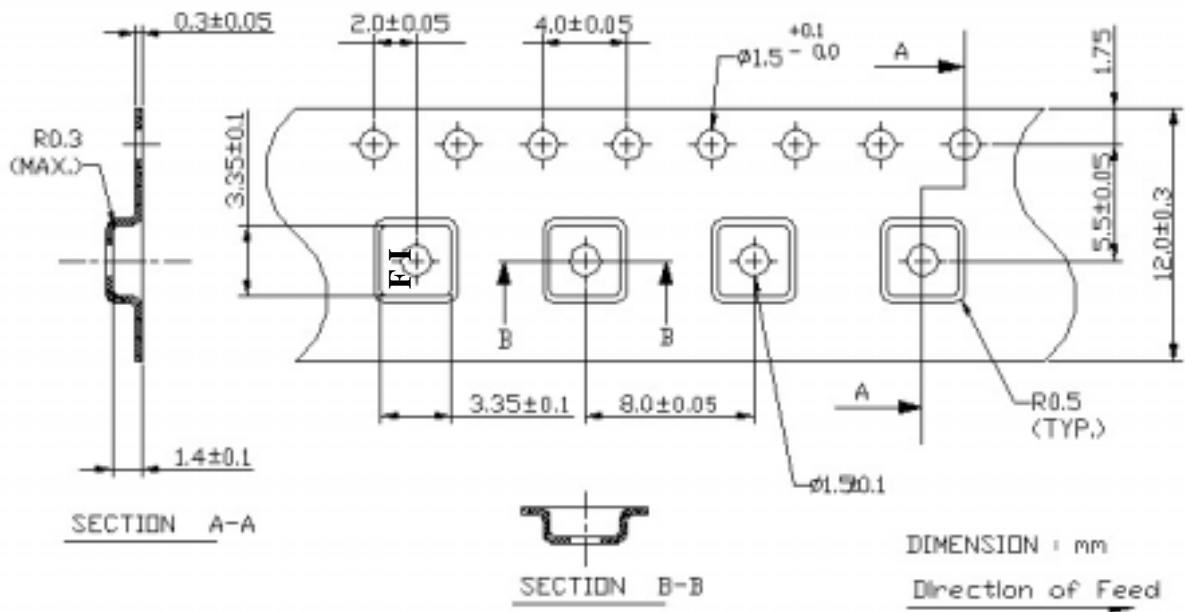
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=1000 ; 13"=3000 or per the request of customer order)



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.

