



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 SMD 3.0 x 3.0 mm(BW=35MHz)

TST Parts No.:TA0229B (This part is compliant with AEC-Q200)

Customer Parts No.: _____

Customer signature required

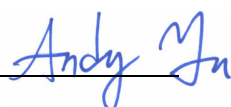
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 11/17/2017

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.: TA0229B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitivity Level: Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

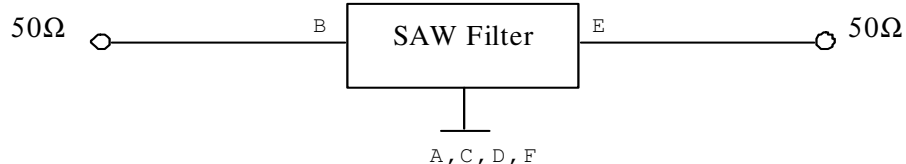
B. ELECTRICAL CHARACTERISTICS:

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

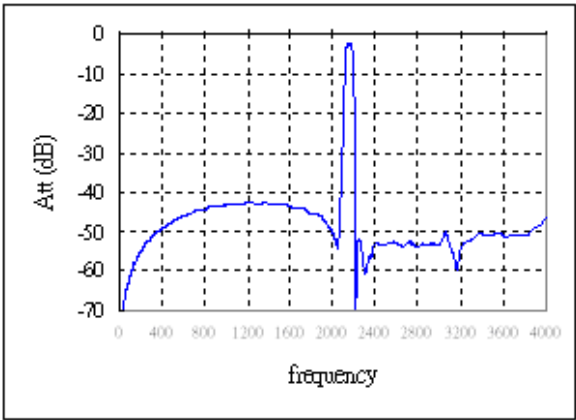
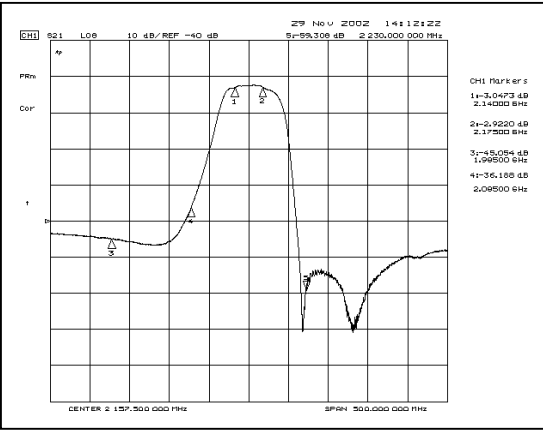
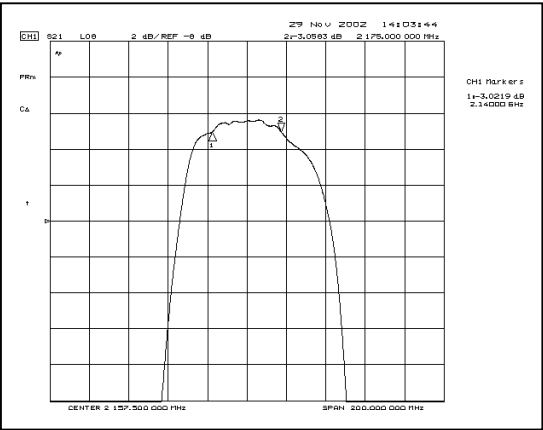
Note1. No matching network required for operation at 50

MEASUREMENT CIRCUIT:

HP Network analyzer

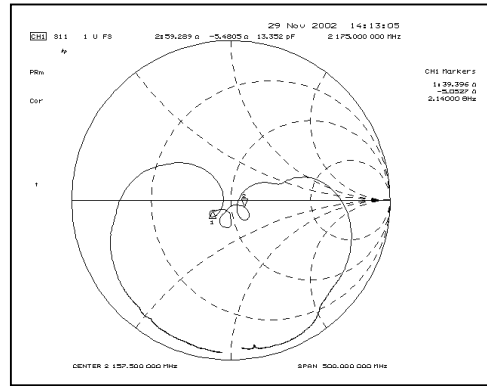
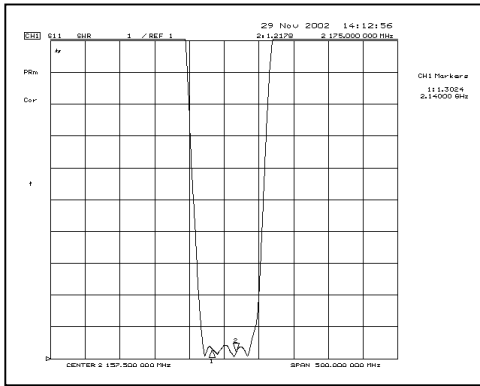


C. Transfer Function :

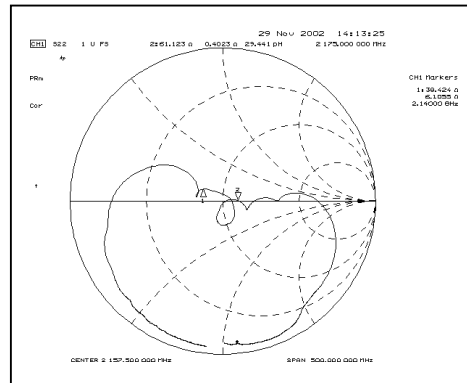
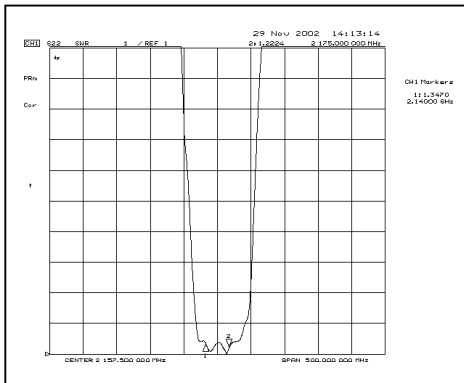


D. Reflections Functions :

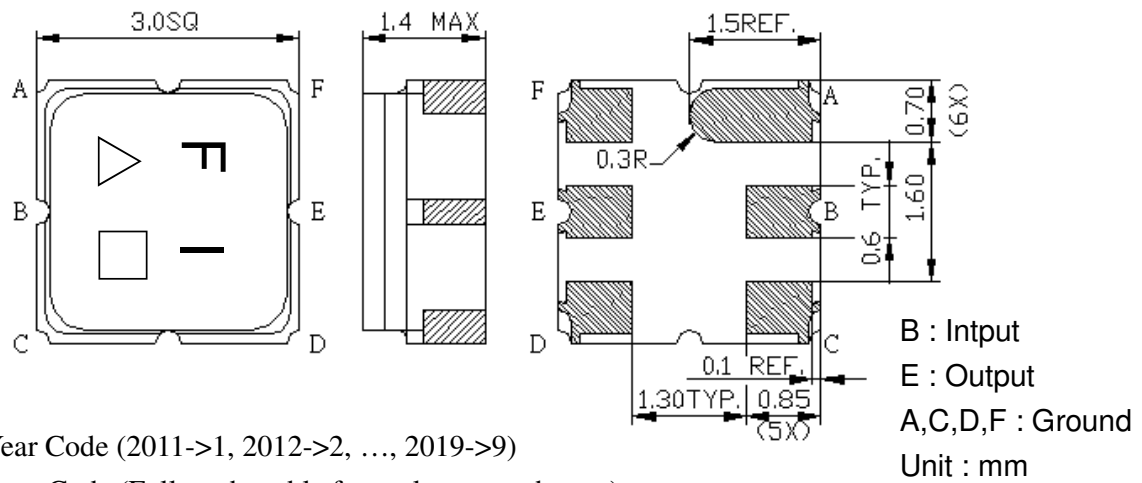
S11



S22



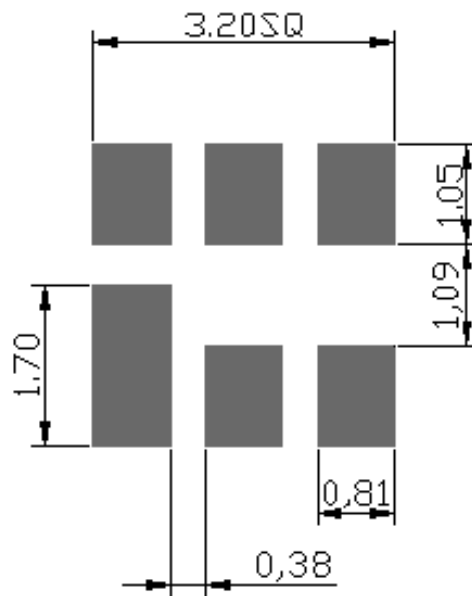
E. OUTLINE DRAWING:



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

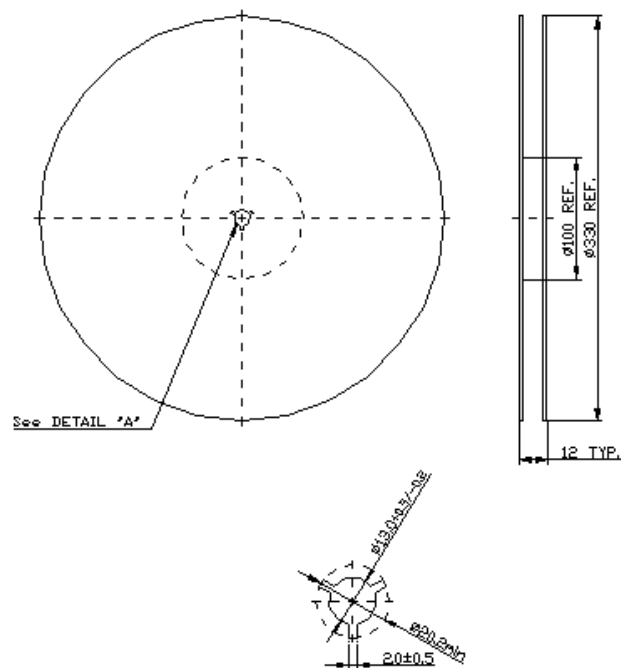
F. LAND PATTERN:



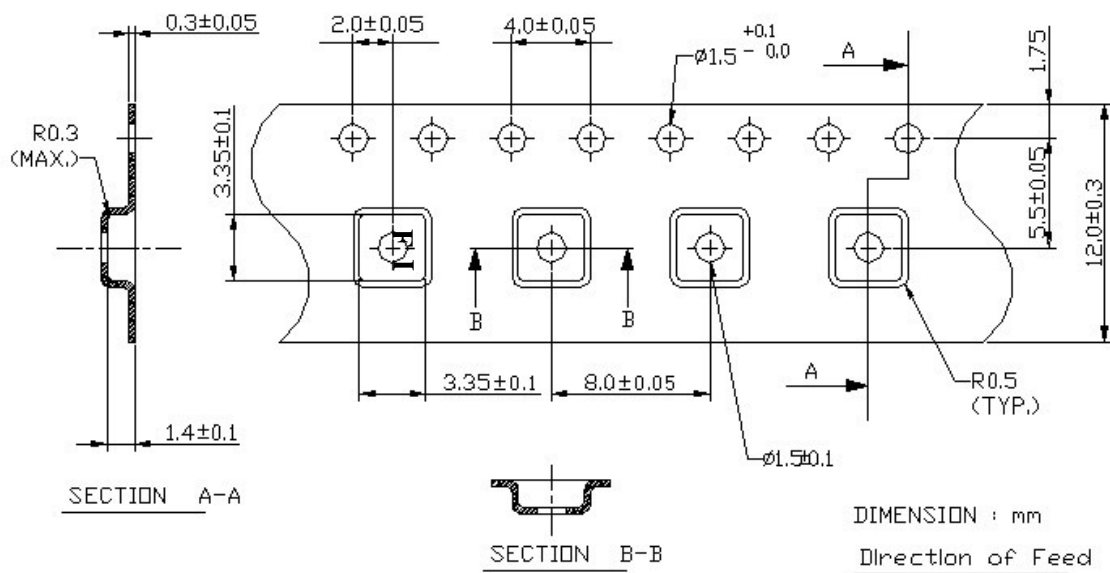
G. PACKING:

1. REEL DIMENSION

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



TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

