



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 2441.8 MHz SMD 3.0X3.0 mm

TST Part No.: TA0223A

Customer Part No.: _____

Customer signature required

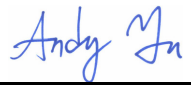
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Andy Yu 

Date: _____ 2020/8/21

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 2441.8 MHz for Bluetooth

MODEL NO.: TA0223A

REV. NO.:5.0

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 +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

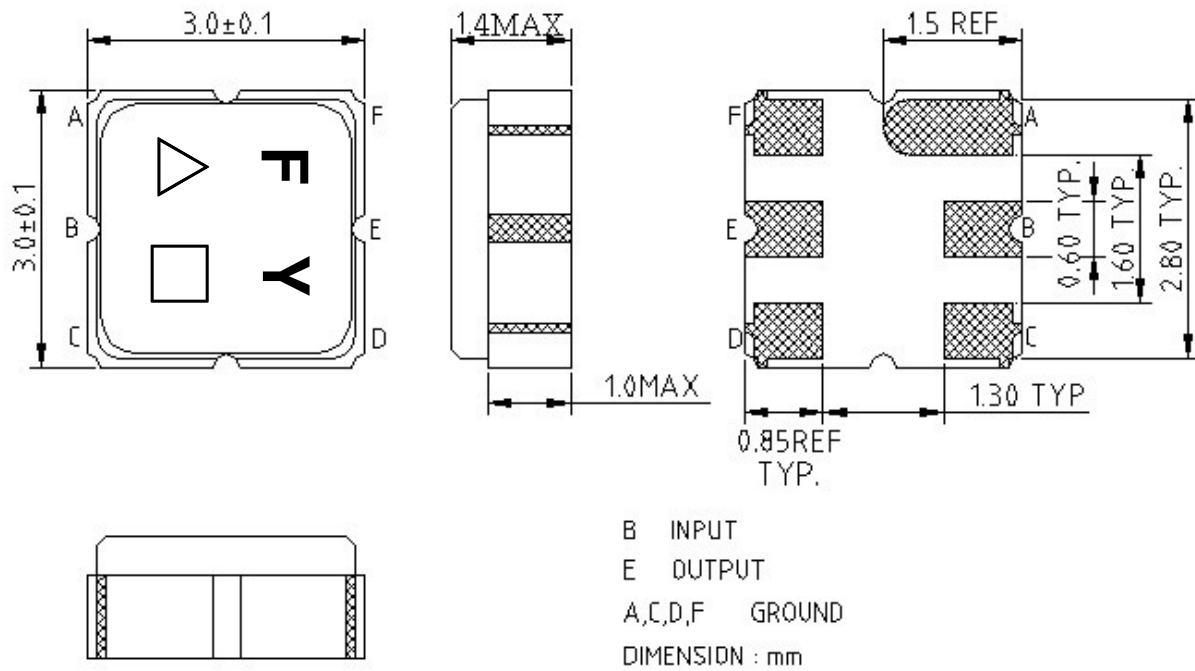
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency		F _c (dB)	-	2441.8	-
Insertion loss (2400~2483.5 MHz)		IL (dB)	-	2.1	5.0
Amplitude ripple (2400~2483.5 MHz)		(dB)	-	0.9	3.0
Attenuation (Reference level from 0 dB)					
D.C. ~ 1700	MHz	(dB)	20.0	29.0	-
1700 ~ 2200	MHz	(dB)	25.0	30.0	-
2700 ~ 3100	MHz	(dB)	30.0	40.0	-
3100 ~ 4000	MHz	(dB)	20.0	29.0	-
4000 ~ 5000	MHz	(dB)	10.0	20.0	-
VSWR (2400~2483.5 MHz)			-	1.7	2.6
Source impedance		Z _s (Ω)	-	50	-
Load impedance		Z _L (Ω)	-	50	-

Note1. The standard definitions is in JIS C 6703

C. OUTLINE DRAWING:



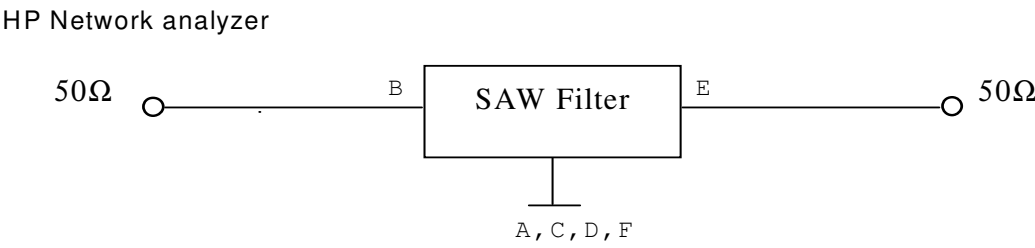
△ : Year Code (2010->0, ..., 2019->9)

□ : Date Code (W01->A, W02->B, ..., W27->a, ..., W52->z)

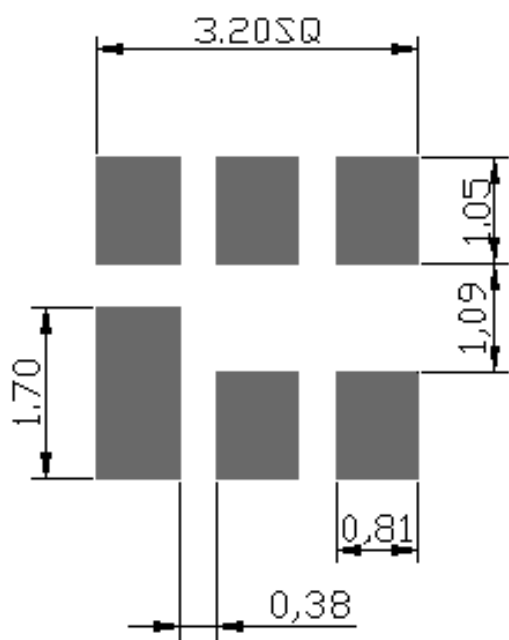
Date Code Table

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:

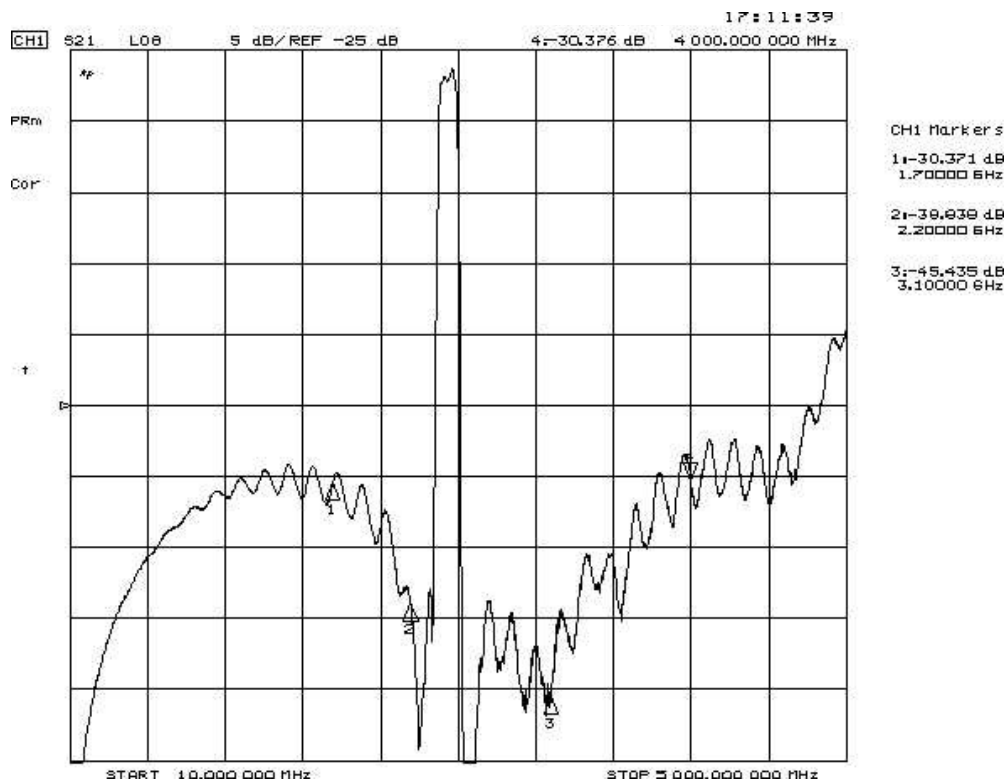
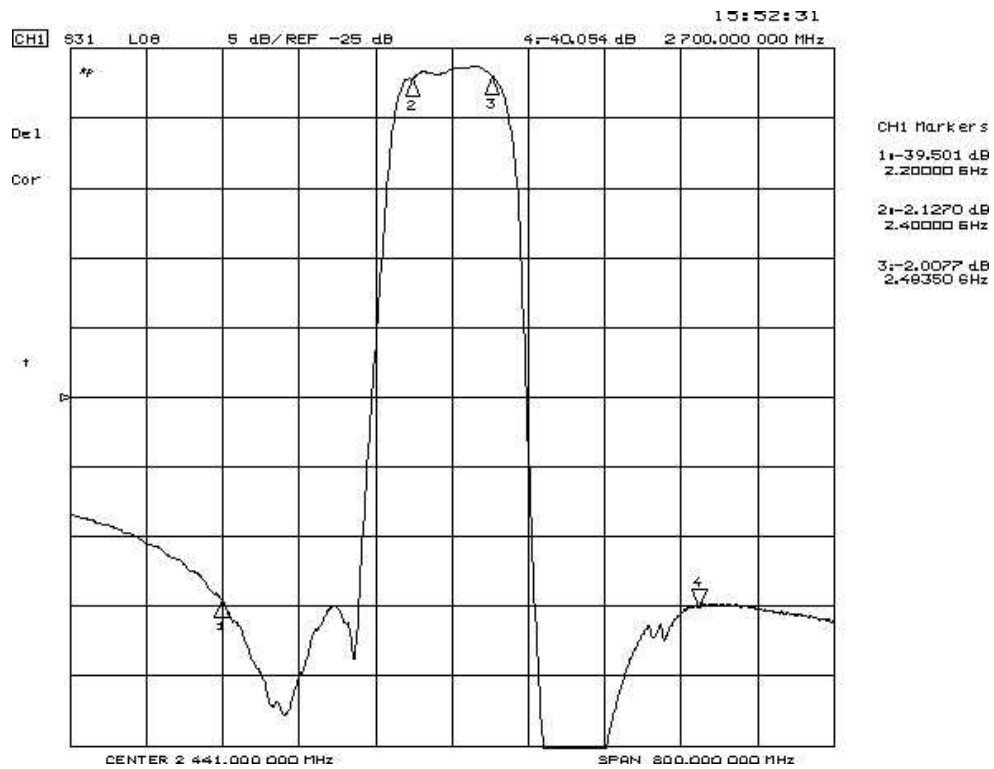


E. PCB Footprint:



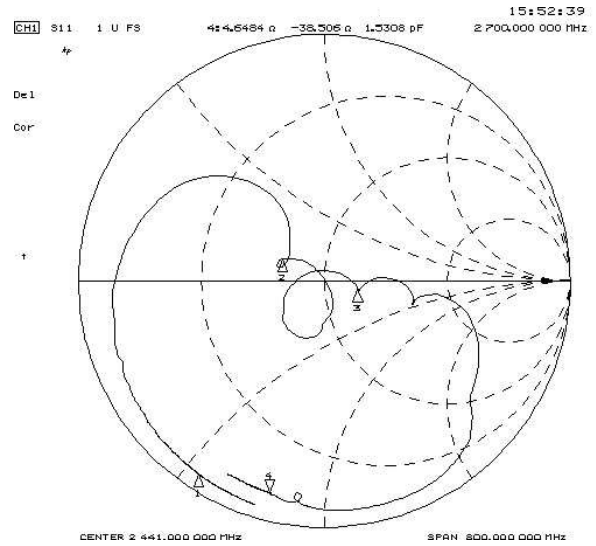
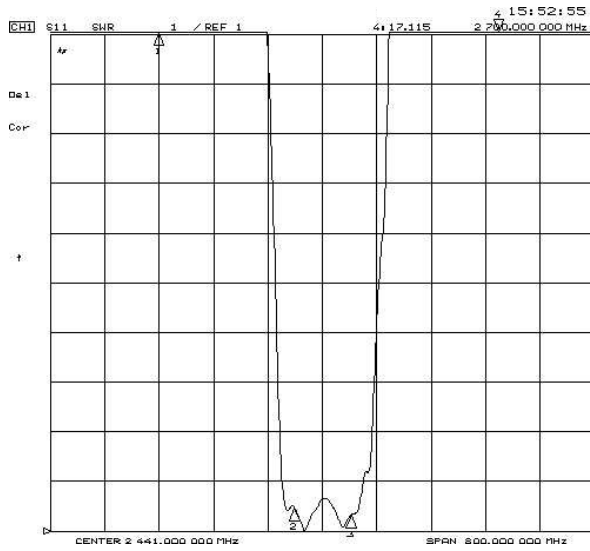
F. Frequency Characteristics :

Transfer function

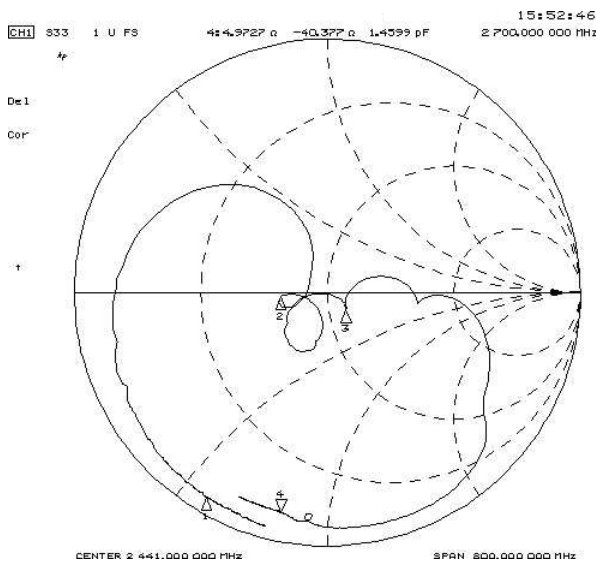
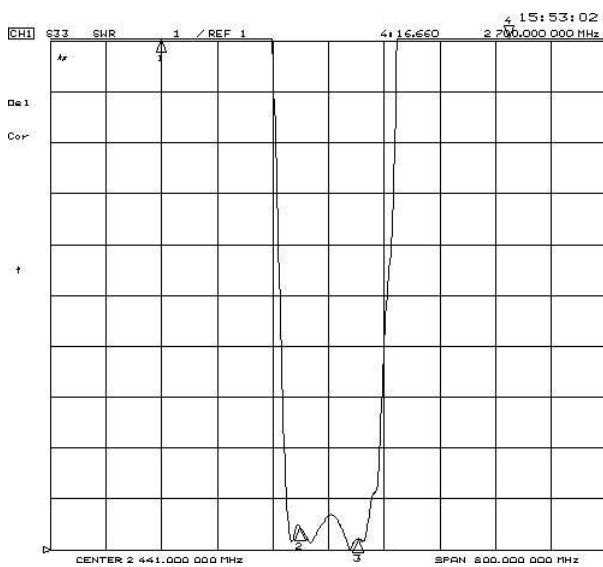


Reflections Functions :

S11 VSWR

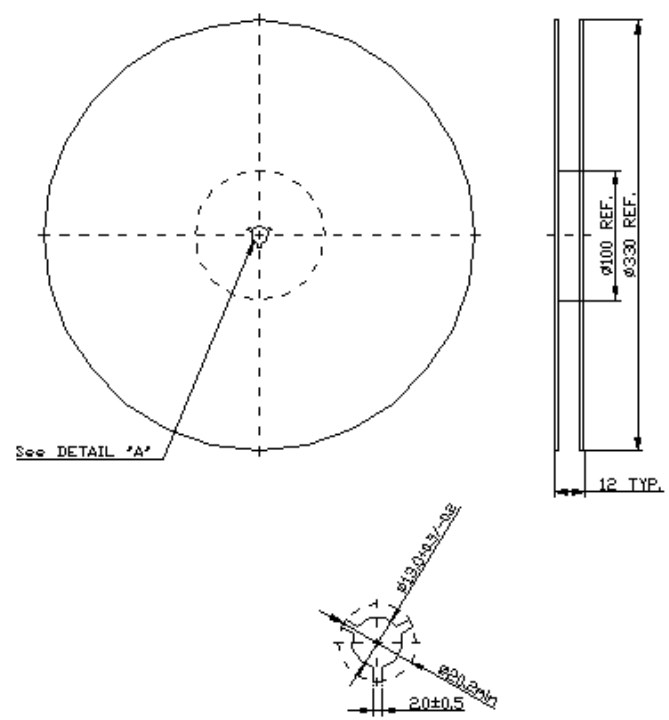


S22 VSWR

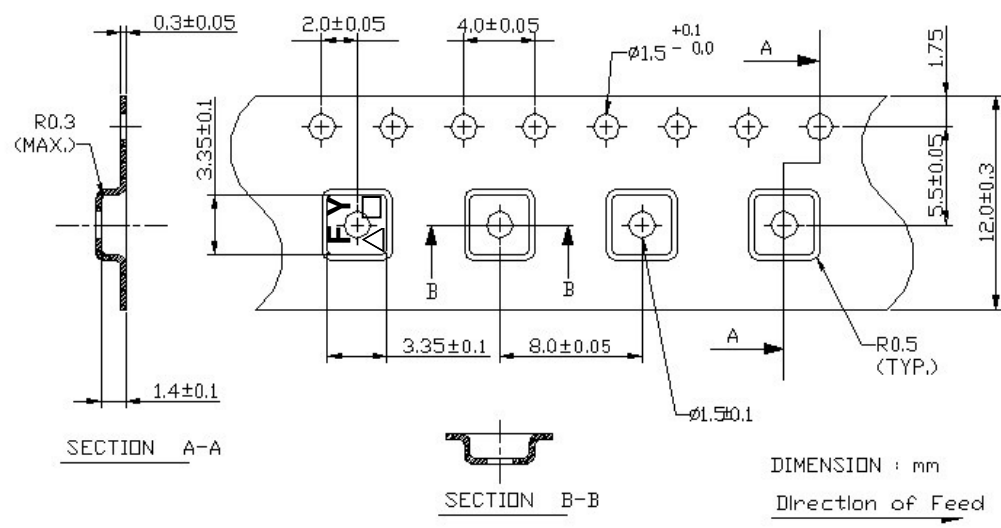


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°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.

