



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specification Approval Sheet

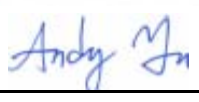
Product Description: SAW Filter 815.5 MHz SMD 3X3 mm

TST Parts No.:TA0430A

Customer Parts No.:_____

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

Checked by:_____ Anne Chen 

Approved by:_____ Andy Yu 

Date:_____ 2021/04/23

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 815.5 MHz

MODEL NO.: TA0430A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 18 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -30°C to +70°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device

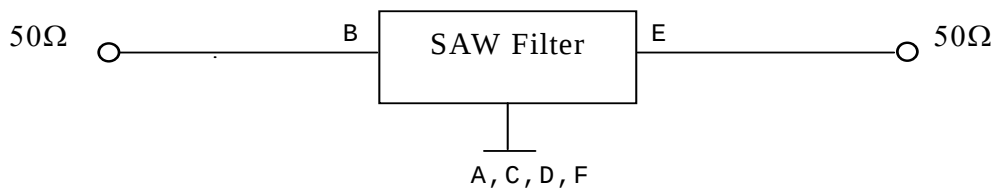
B. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency	Fc	(MHz)	-	815.5	-
Insertion loss (806~825 MHz)	IL	(dB)	-	2.6	3.5
Group delay ripple (806~825 MHz)		(nS)	-	18	50
Attenuation (Reference level from 0 dB)					
851 ~ 866	MHz	(dB)	40	46	-
935 ~ 940	MHz	(dB)	35	68	-
960.65 ~ 979.65	MHz	(dB)	35	65	-
1115.3 ~ 1134.3	MHz	(dB)	37	64	-
1269.95 ~ 1288.95	MHz	(dB)	40	62	-
1612 ~ 1650	MHz	(dB)	35	68	-
1650 ~ 2600	MHz	(dB)	25	38	-
Input/Output VSWR (806~825 MHz)			-	1.7	2.0
Source impedance	Zs	(Ω)	-	50	-
Load impedance	ZL	(Ω)	-	50	-

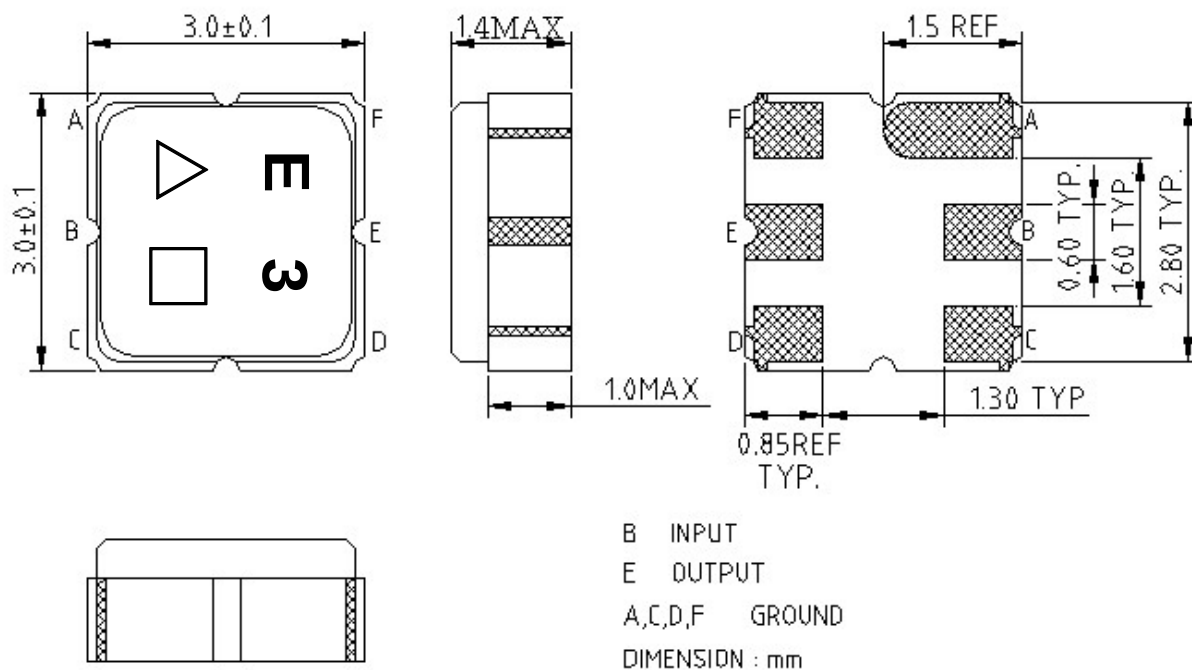
Note1. The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



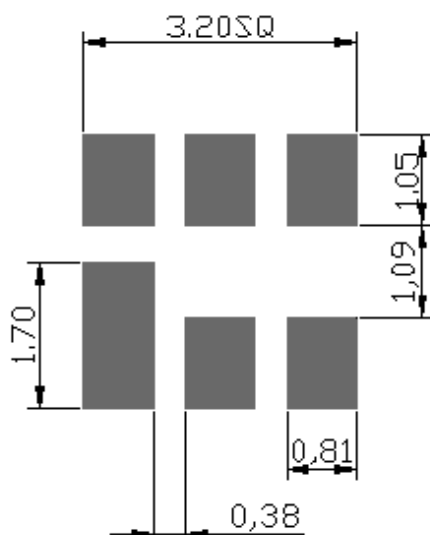
△ : Year Code Year Code (2020->0, 2021->1, ..., 2029->9)

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

Date Code Table

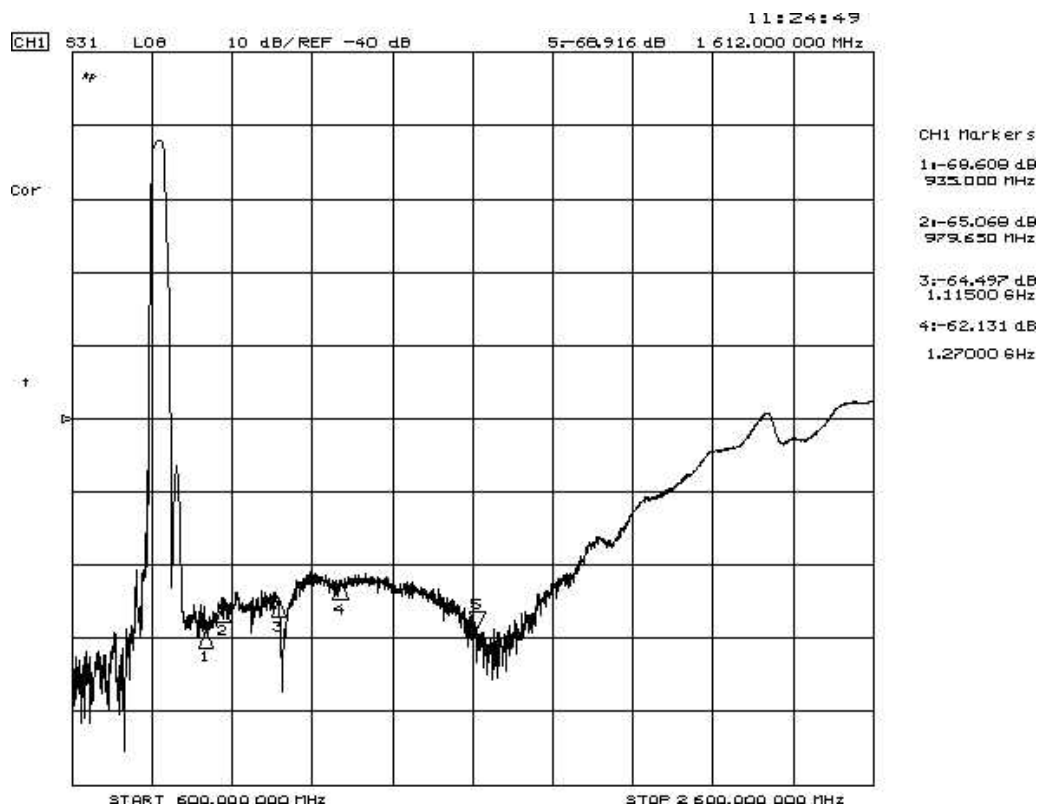
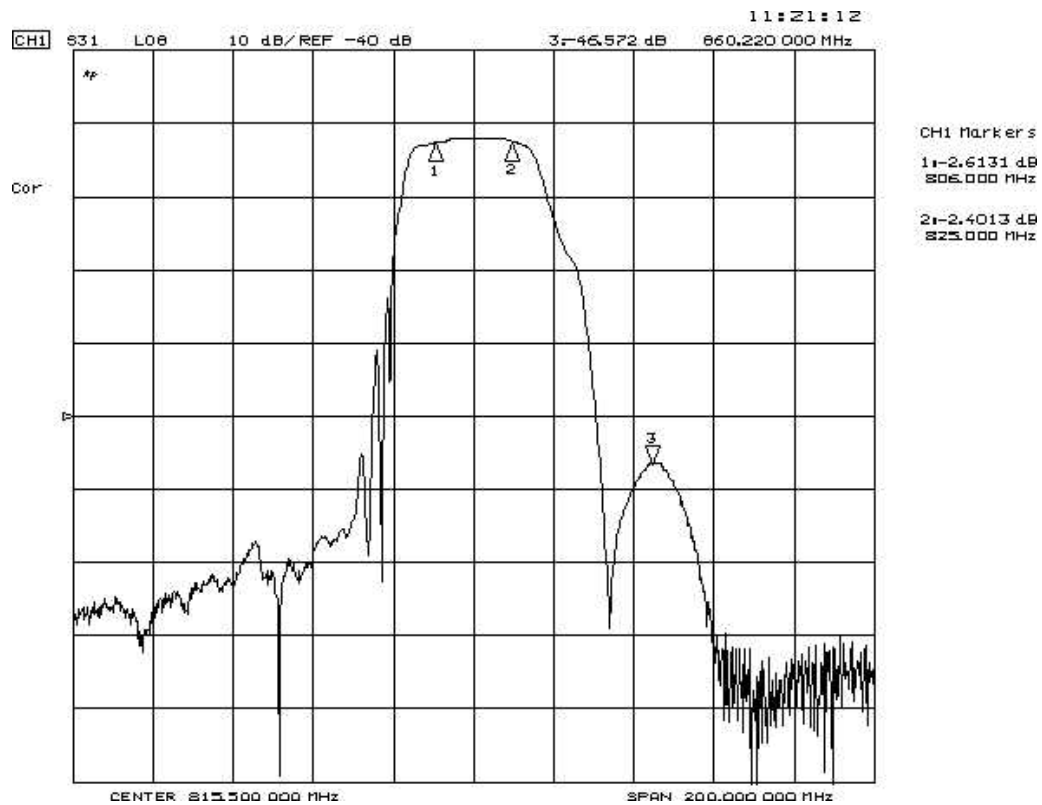
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. PCB Footprint:



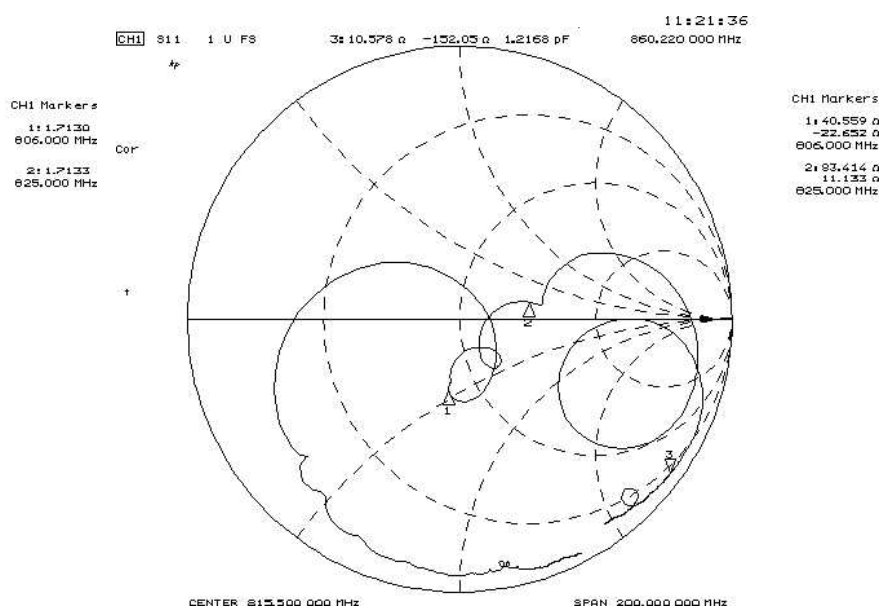
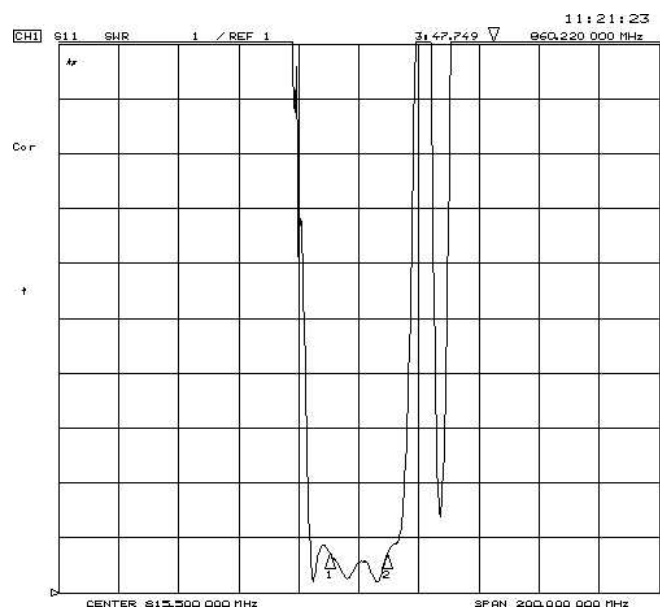
F. Frequency Characteristics :

Transfer function

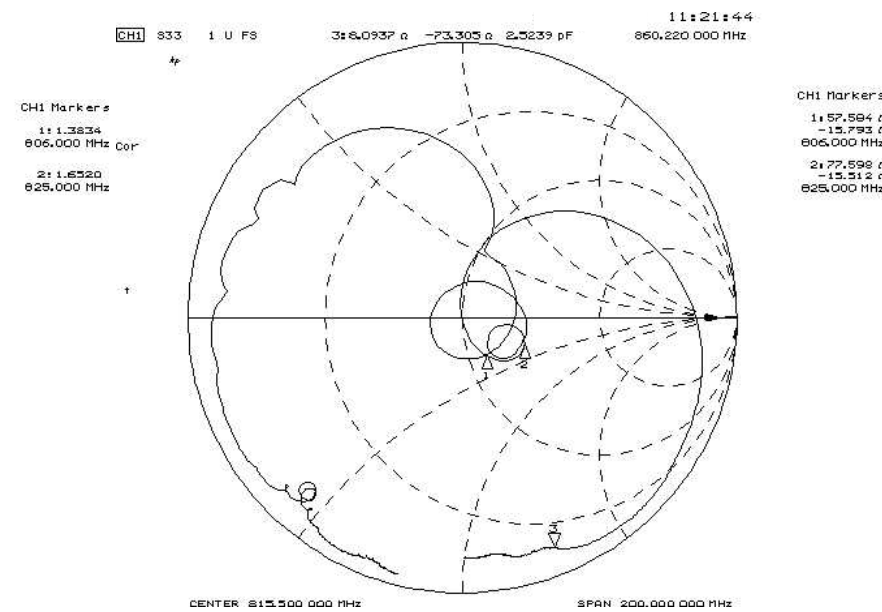
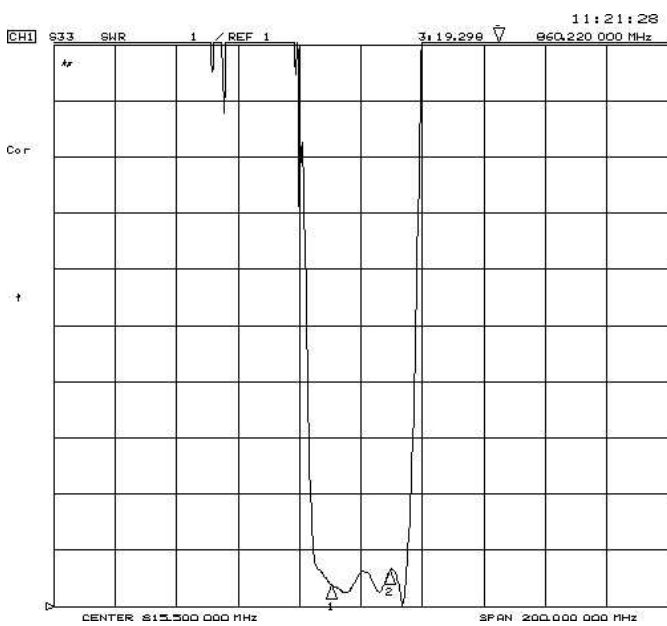


Reflections Functions :

S11

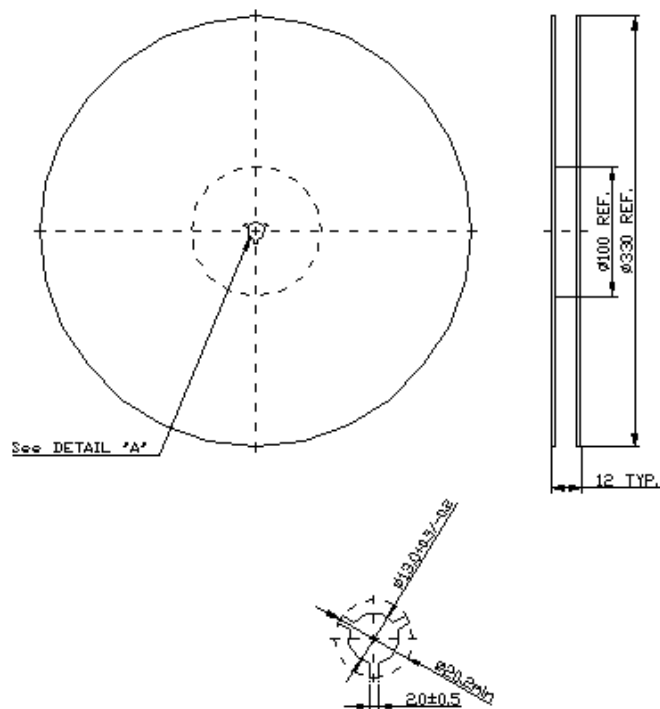


S22

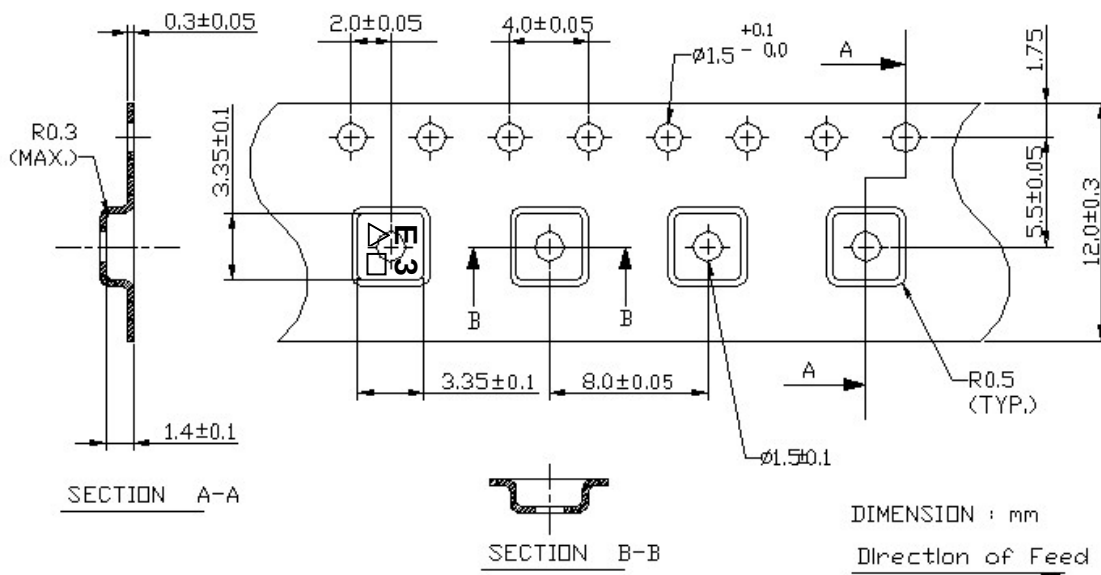


G. PACKING:

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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

