



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: 1565.5MHz 81MHz BW SMD 3.0 x 3.0mm SAW RF Filter

TST Parts No.: TA2247A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 11 / 14 / 2018

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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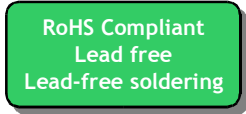
SAW Filter 1565.5MHz 81MHz BW (SMD 3.0x3.0 mm)

MODEL NO.: TA2247A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 105°C
2. Storage temperature range: -40°C to 105°C
3. Input Power Level : 15dBm
4. Maximum DC Voltage : 3V
5. Moisture Sensitivity Level: MSL1



Electrostatic Sensitive Device

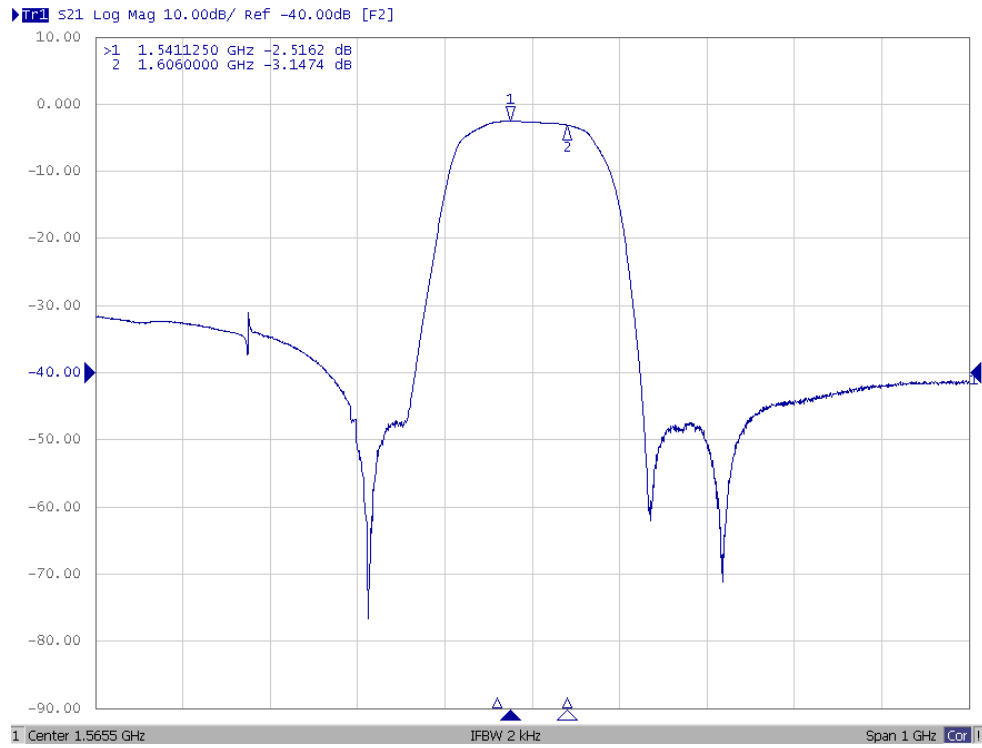
B. CHARACTERISTICS:

Ambient Temperature: 25°C

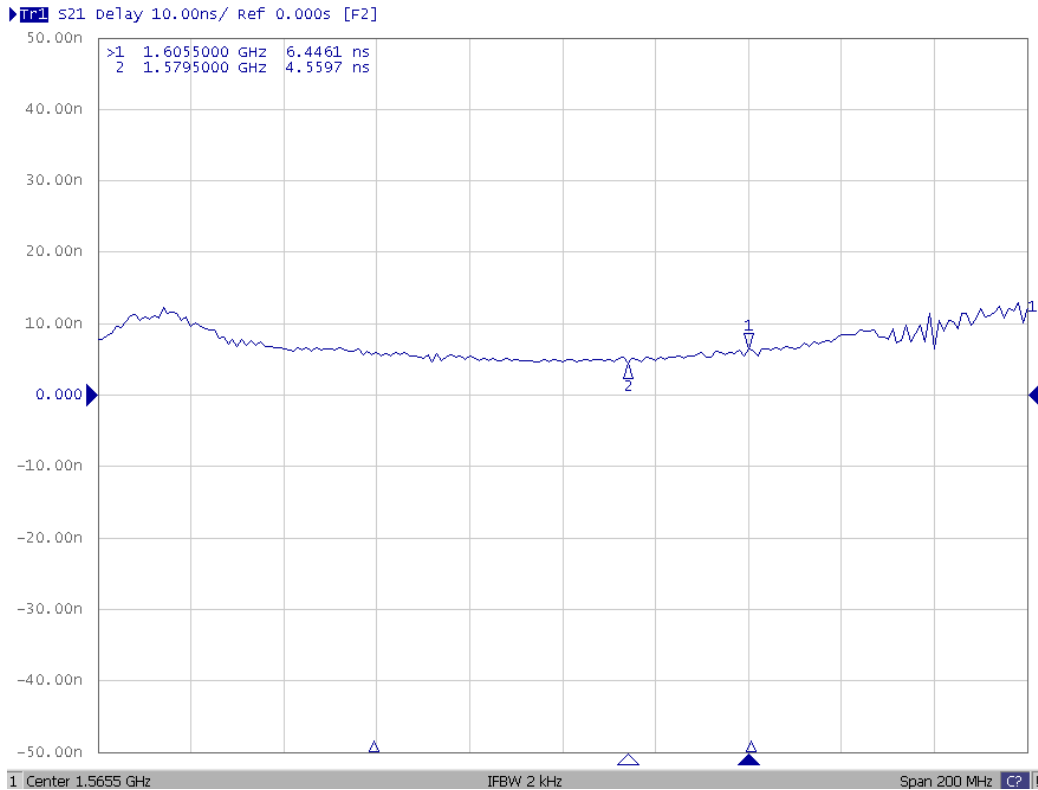
Item	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	-	1565.5	-
Max. Insertion Loss, (1525~1606MHz)	dB	-	3.1	3.7
Passband Ripple (1525~1606MHz)	dB	-	0.6	2.0
Group Delay Variation (1525~1606MHz)	ns	-	2	15
Group Delay Variation(1525~1606MHz) On 2MHz sliding Window	ns	-	1.2	15
Group Delay Variation (1573.374~1577.466MHz)	ns	-	0.5	5
Group Delay Variation (1597.55~1605.866MHz)	ns	-	1	5
Return Loss (1525~1606MHz)	dB	6.0	9.0	-
Attenuation Referenced from 0dB				
703MHz ~ 915MHz	dB	27	30	-
1320MHz ~ 1420MHz	dB	30	40	-
1740MHz ~ 2000MHz	dB	30	40	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS:

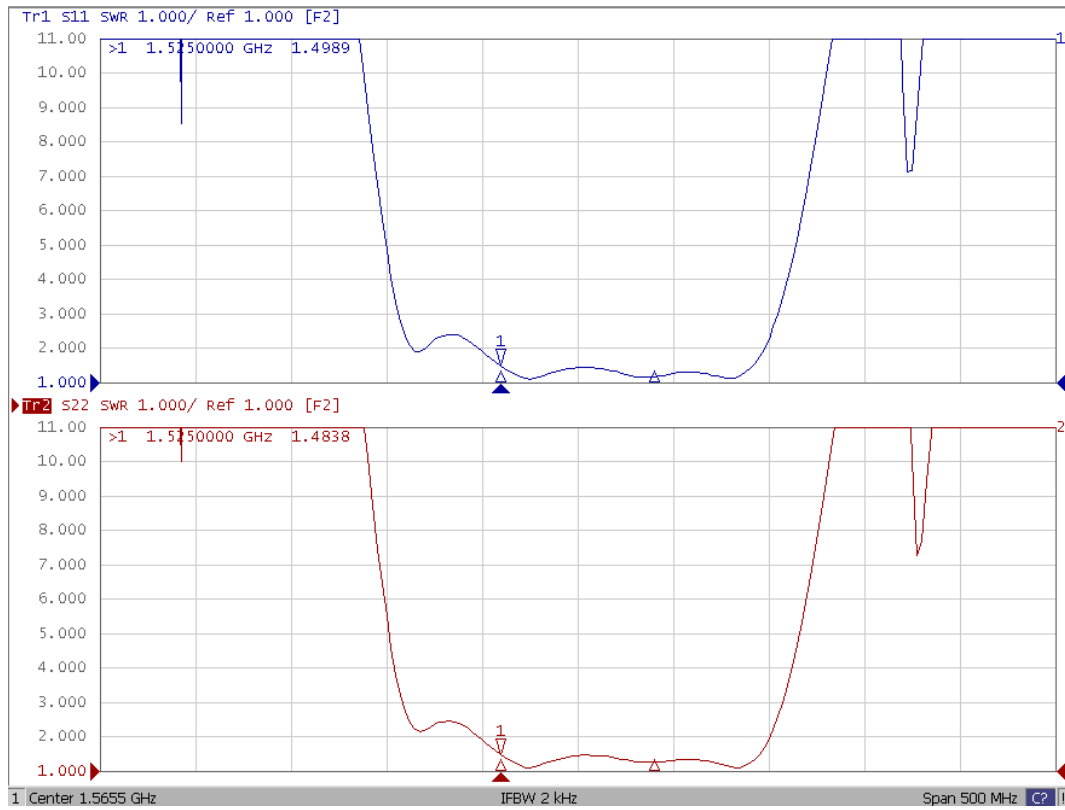
(1) Narrow Band Response:



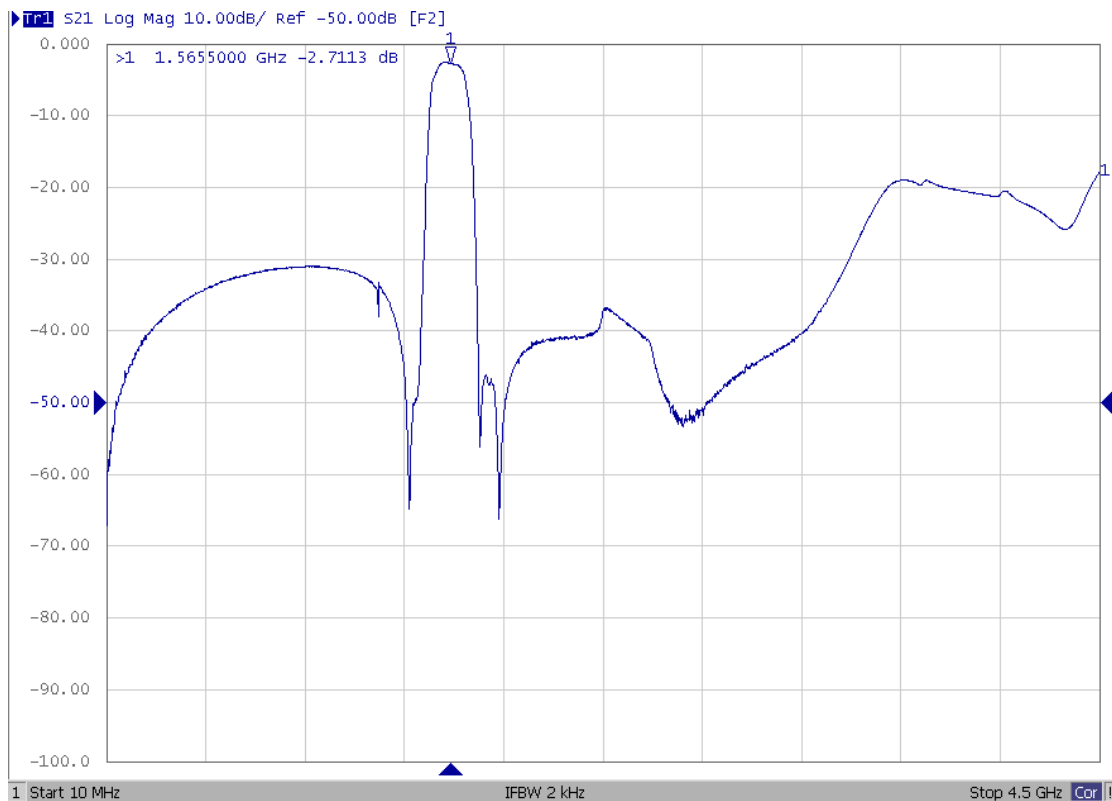
(2) Group Time Delay Response:



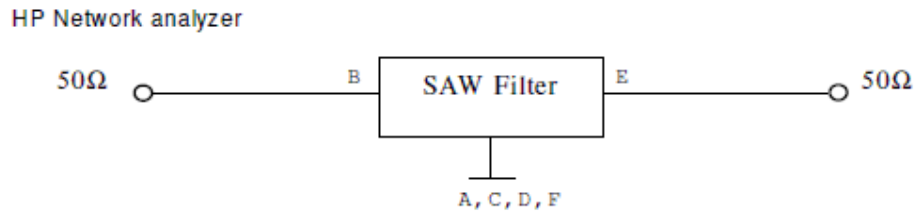
(3) VSWR:



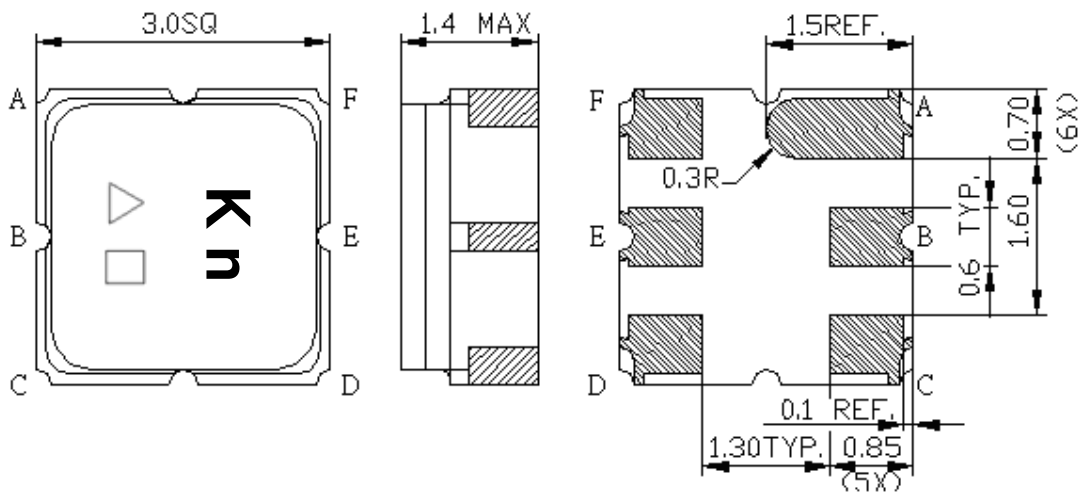
(4) Wide Band Response:



D. MATCHING CIRCUIT:



E. OUTLINE DRAWING:



#B: Input

#E: Output

Others: Ground

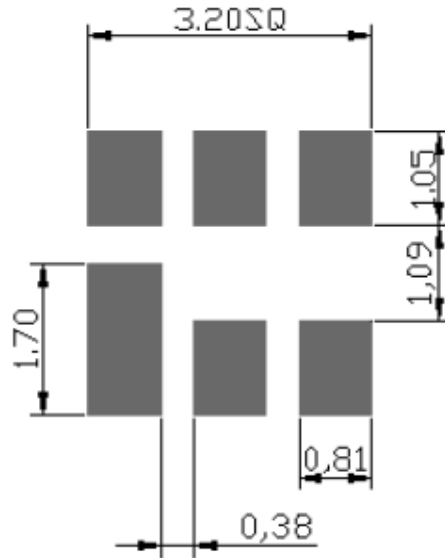
△ Year code : Ten-Year Cycle

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	2020	2021	2022	2023	2024	2025	2025	2027	2028	2029
Code	0	1	2	3	4	5	6	7	8	9

□ Data code :

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

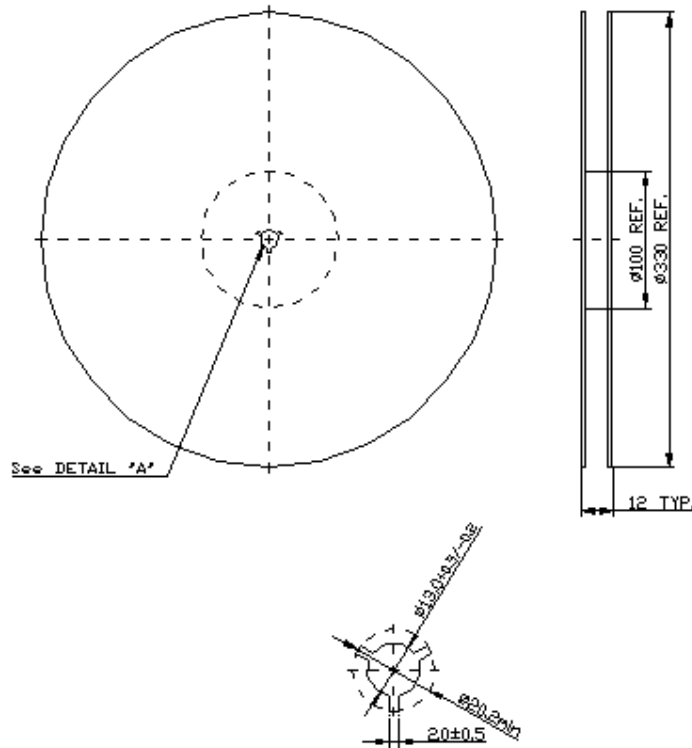
F. PCB FOOTPRINT:



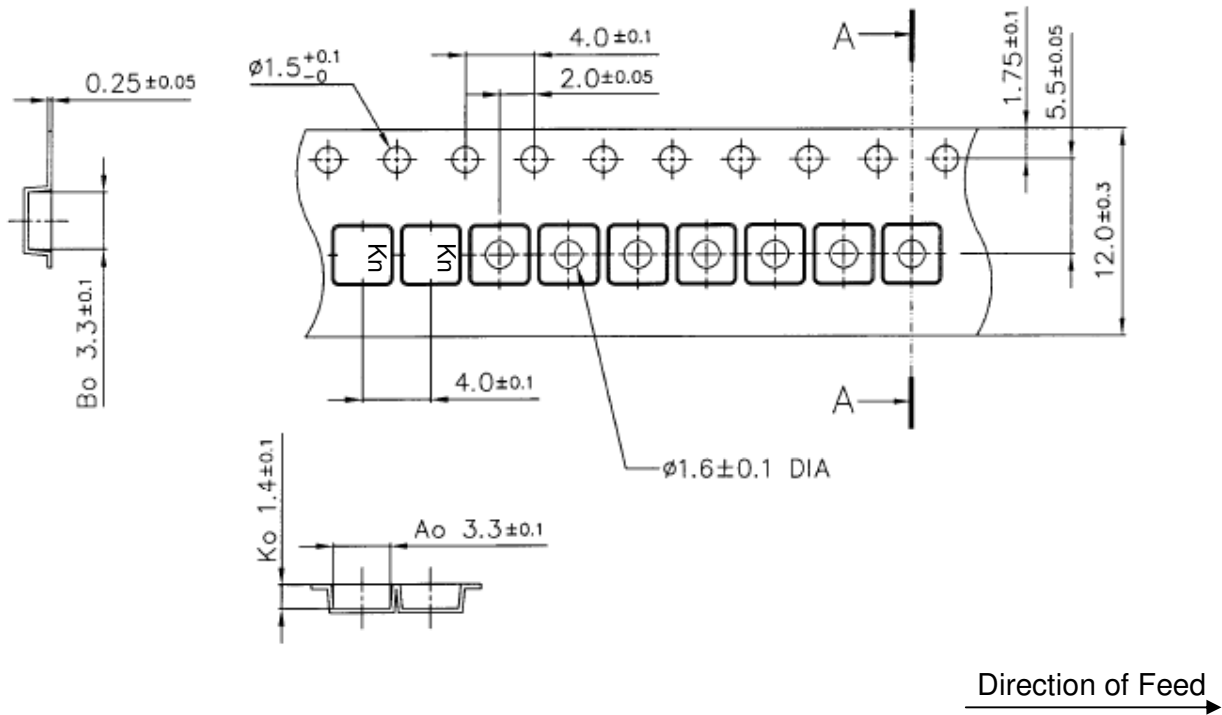
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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 $260^\circ\text{C} + 0/-5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.

