



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specification Approval Sheet

Product Description: SAW Filter 1128 MHz SMD 3.0X3.0 mm(BW=34 MHz)

TST Part No.: TA1413C

Customer Part No.: _____

Customer signature required

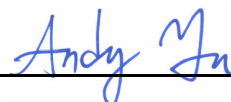
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2019 . 06 .25

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 change



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SAW Filter 1128 MHz

MODEL NO.:TA1413C

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -55℃ to +100℃
4. Storage Temperature: -55℃ to +105℃
5. Moisture Sensitivity Level: Level 1(MSL1)
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

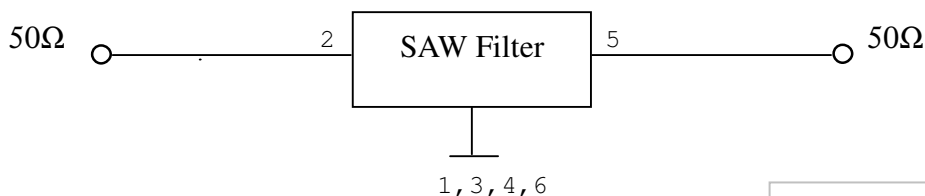
Terminating source impedance (single ended) : $Z_s = 50 \Omega$

Terminating load impedance (single ended) : $Z_L = 50 \Omega$

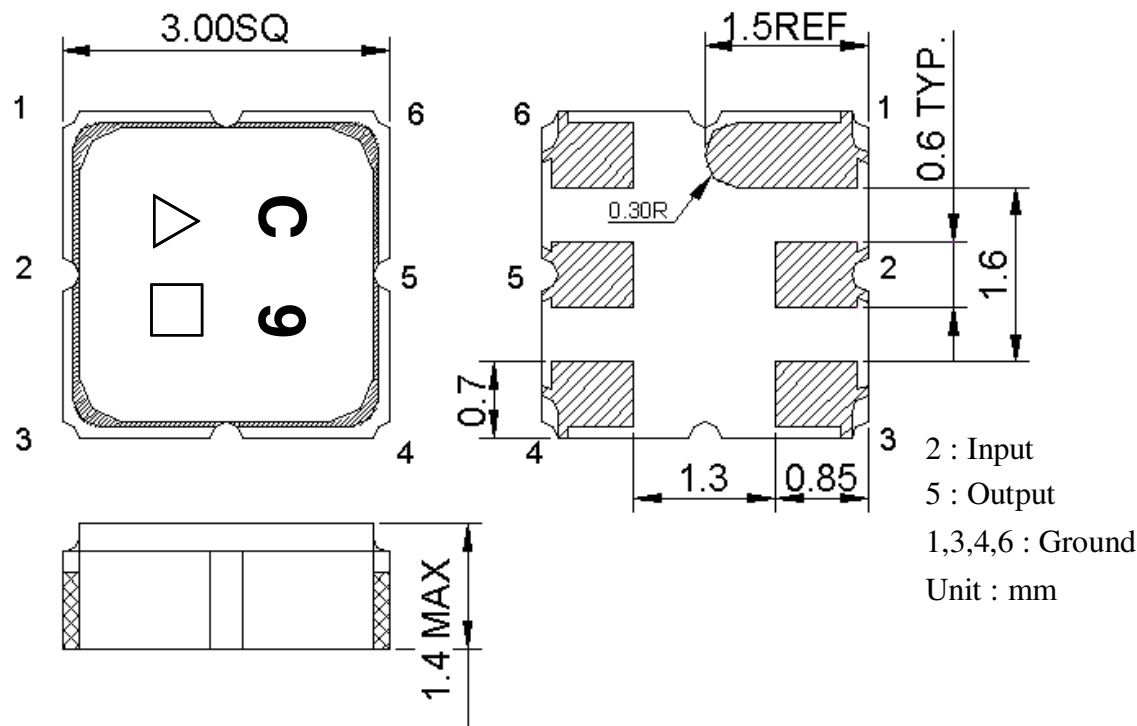
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1128	-	-
Insertion Loss (1111 ~ 1145 MHz)	dB	-	2.85	4.2	-
Amplitude Variation (1111 ~ 1145 MHz)	dB	-	1.1	2.2	-
Amplitude Variation over 3 MHz	dB	-	0.4	1	-
VSWR (1111 ~ 1145 MHz)		-	2.1	2.5	-
Group Delay Variation over 3 MHz	ns	-	10	25	-
Attenuation (reference level from 0 dB)					
DC~1090 MHz	dB	25	42	-	-
1163~1190 MHz	dB	5	16	-	-
1190~2000 MHz	dB	28	42	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D.OUTLINE DRAWING:



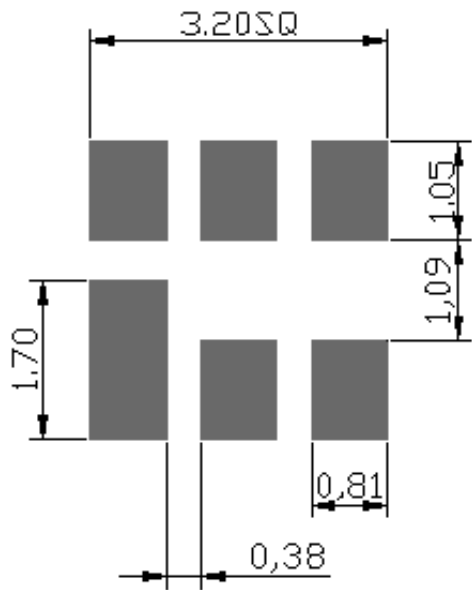
△ : Year Code (2019->9, 2020->0,..., 2028->8)

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

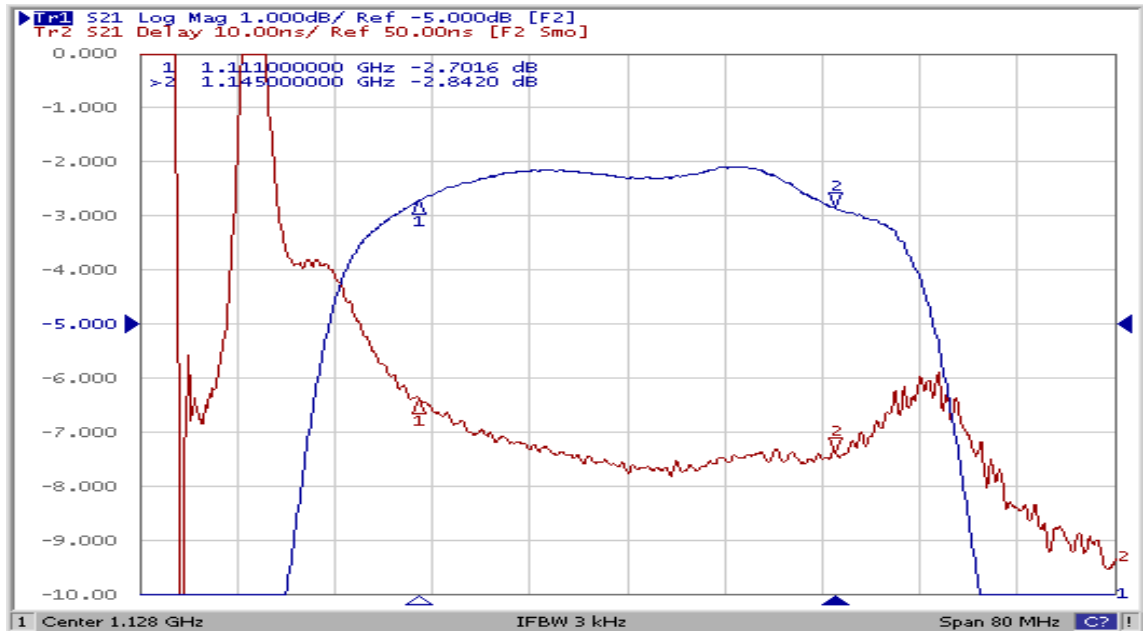
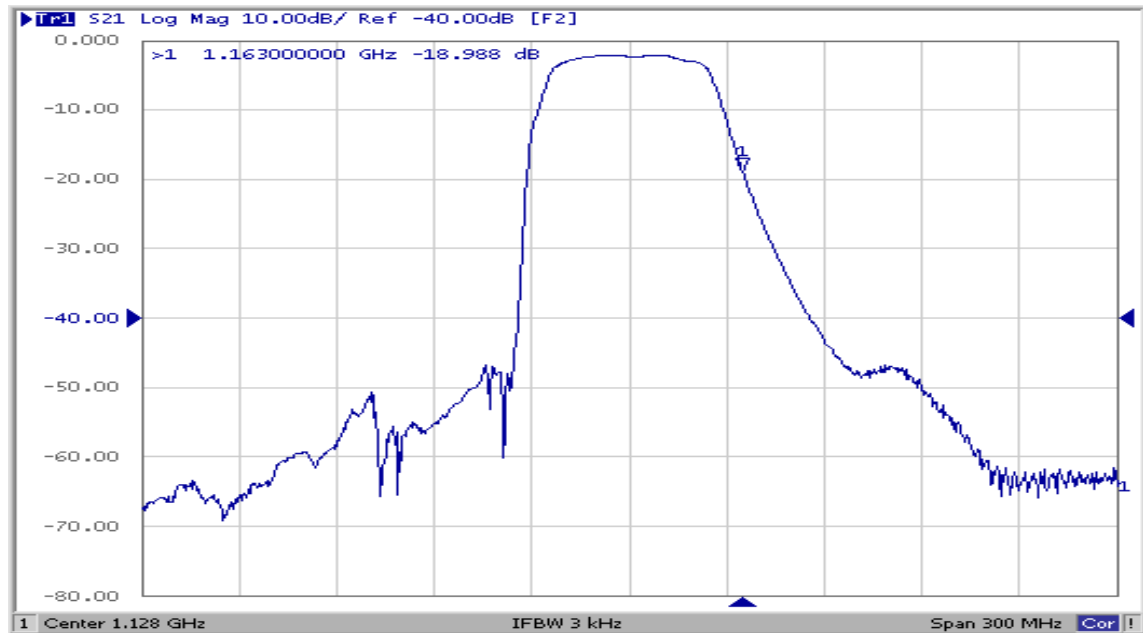
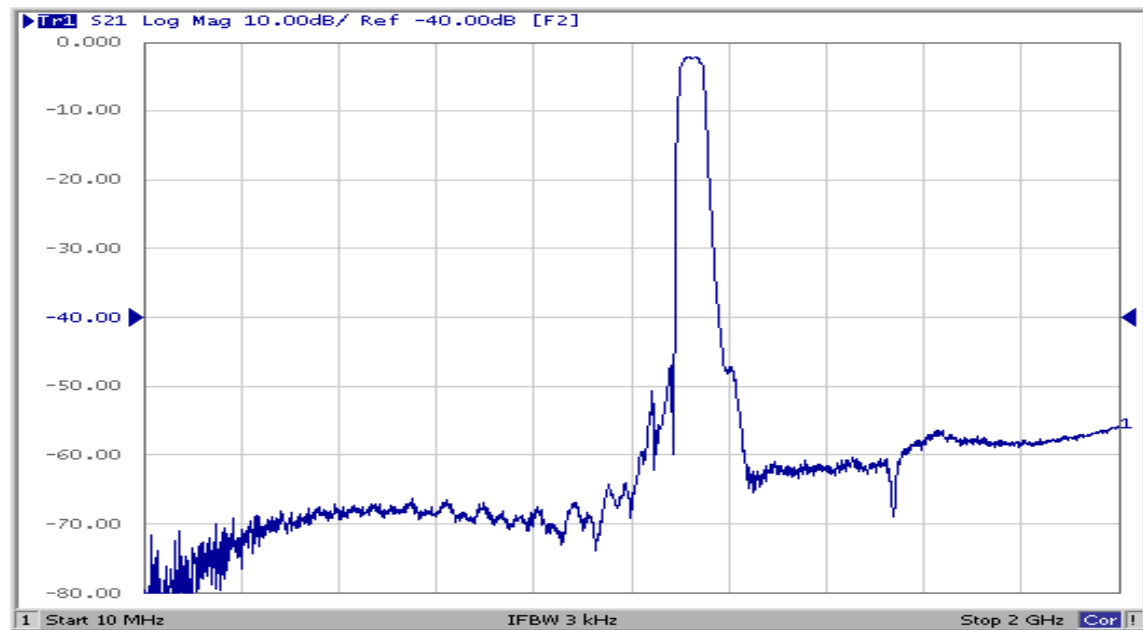
Date Code Table

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

E. PCB Footprint:

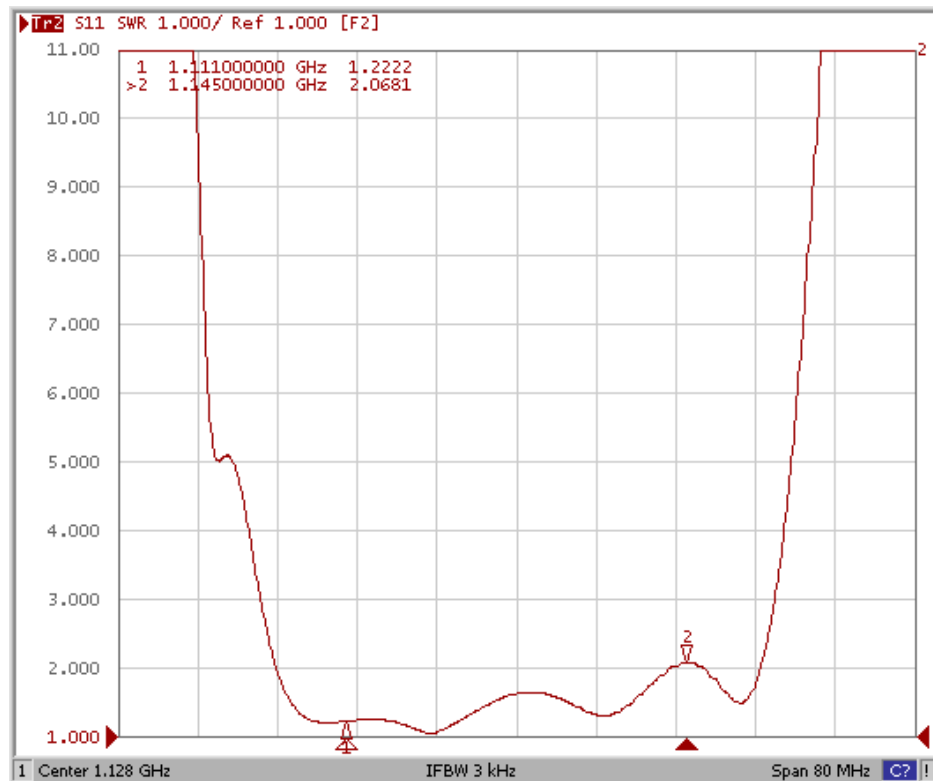


F. Frequency Characteristics :

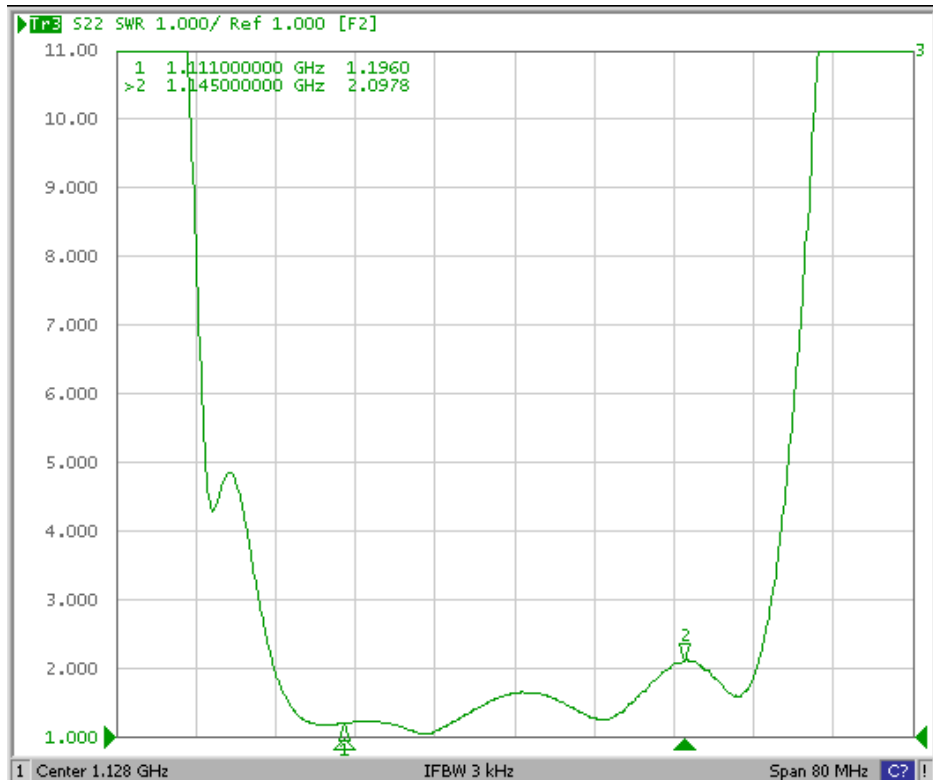


Reflection Functions :

S11



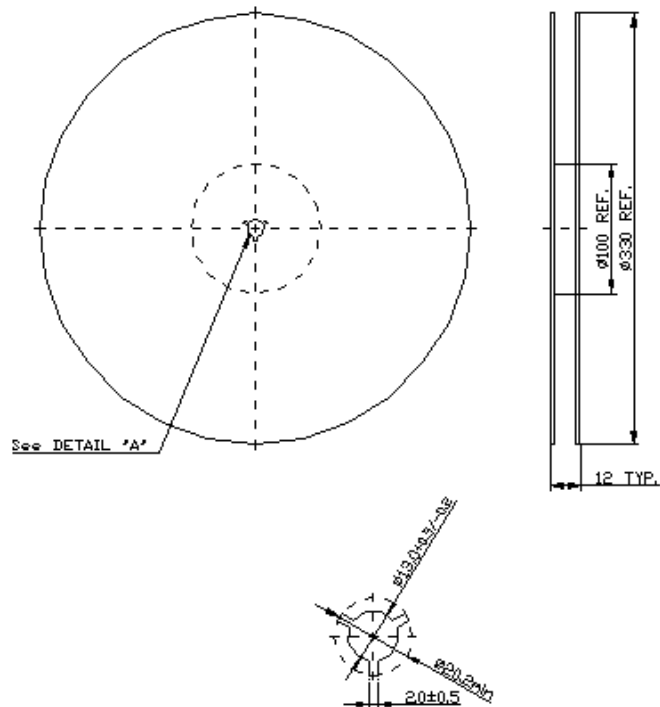
S22



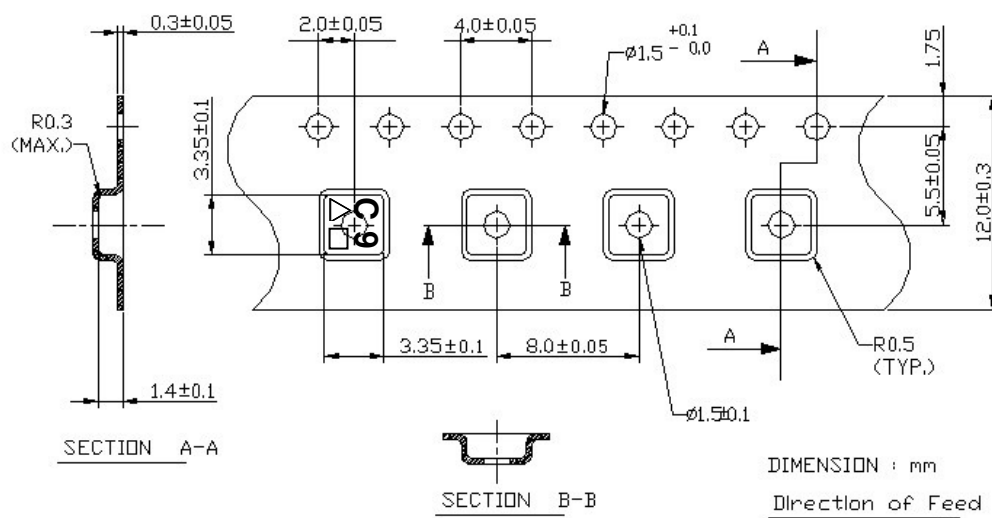
G. PACKING:

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.

