



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 1790.48 MHz SMD 3.0x3.0 mm (BW=40 MHz)

TST Part No.: TA0728C (This part is compliant with AEC-Q200)

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2017/07/07

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 1790.48 MHz

MODEL NO.:TA0728C

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +125°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) : $Z_s = 150 \Omega // 22 \text{ nH}$

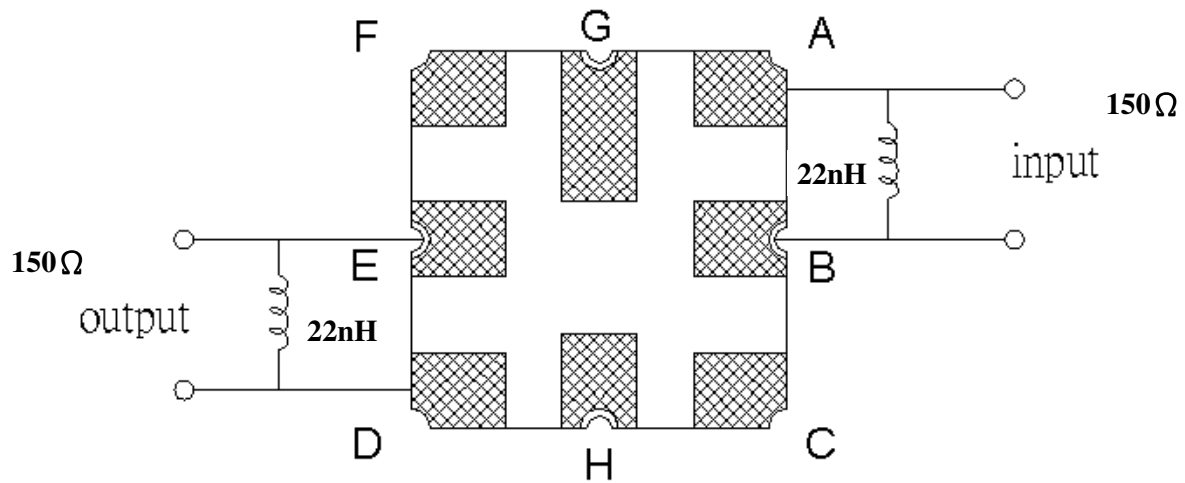
Terminating load impedance (differential) : $Z_L = 150 \Omega // 22 \text{ nH}$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1790.48	-	-
Bandwidth at -2 dB	MHz	40	60	-	-
Insertion Loss in 1770.48~1810.48 MHz	dB	-	2.8	5	-
Amplitude ripple (1770.48 MHz ~ 1810.48 MHz)	dB	-	0.8	2	-
Phase error (1770.48 MHz ~ 1810.48 MHz) (3)	deg	-	1.2	5	-
Group Delay ripple (1770.48 MHz ~ 1810.48 MHz)	ns	-	8	25	-
I/O VSWR (1770.48 MHz ~ 1810.48 MHz)	-	-	1.8	2.5	-
Attenuation (1)					
50 ~ 1708.42 MHz	dB	44	49	-	-
1872.54 ~ 1912.5 MHz	dB	44	56	-	-
1912.5 ~ 4250 MHz	dB	38	41	-	-
4250 ~ 6000 MHz	dB	30	38	-	-

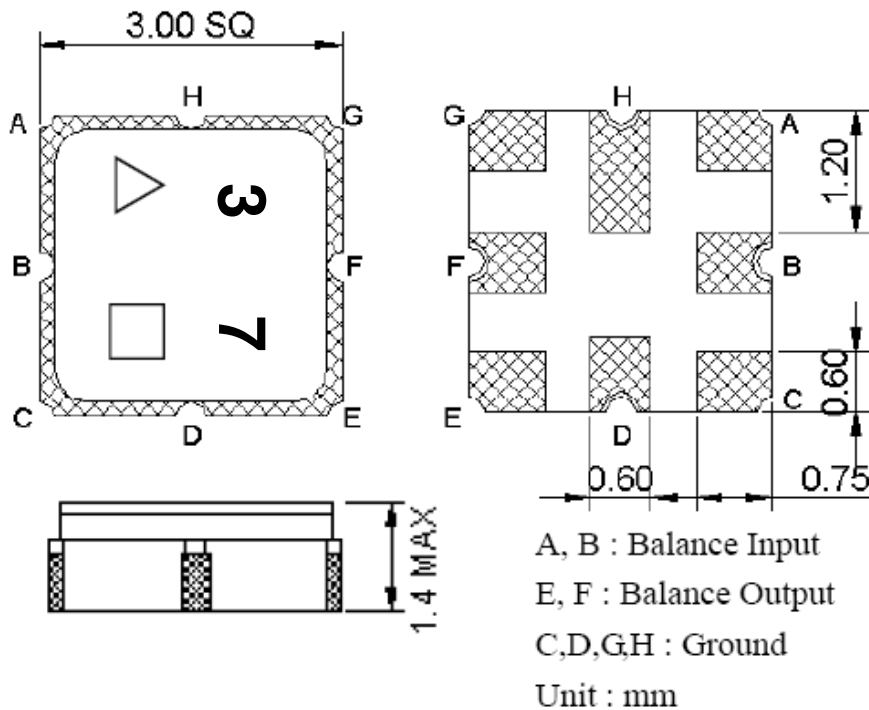
Notes:

- (1) The amplitude reference is insertion loss at Fc.
- (2) The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
- (3) The phase error is measured over any 30 MHz block of the given bandwidth.

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



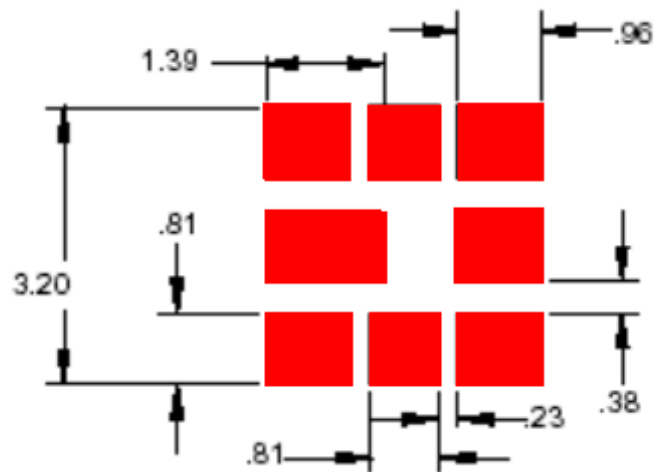
△: Year Code(2011->1, 2012->2, ..., 2019->9, 2020->0)

□: Date Code

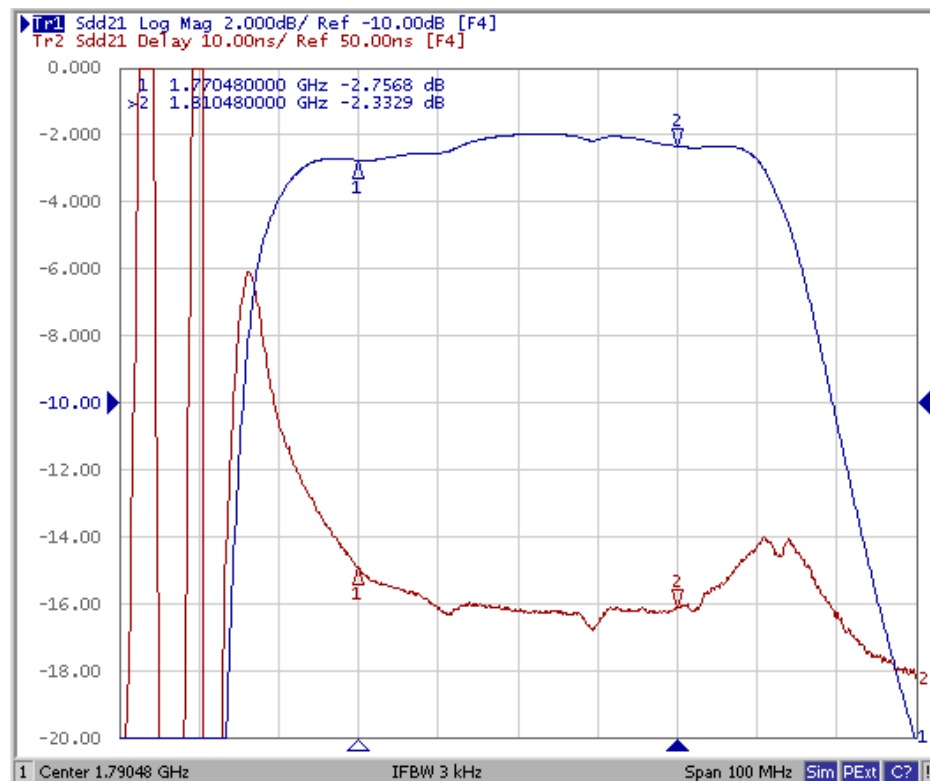
Date Code Table:

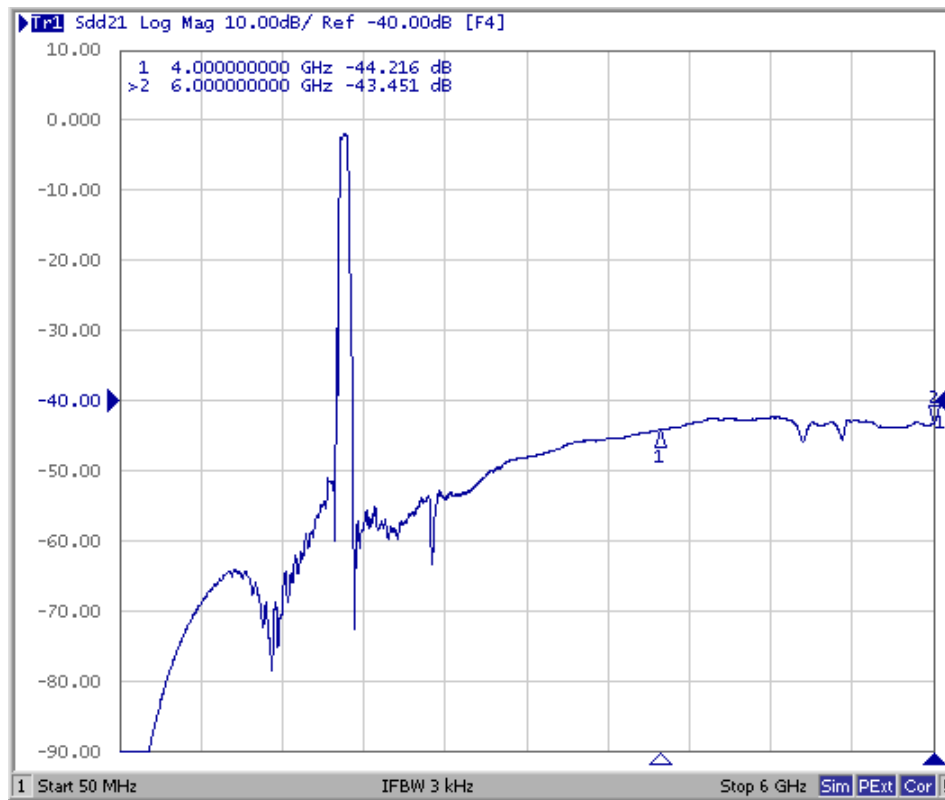
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. PCB Footprint:



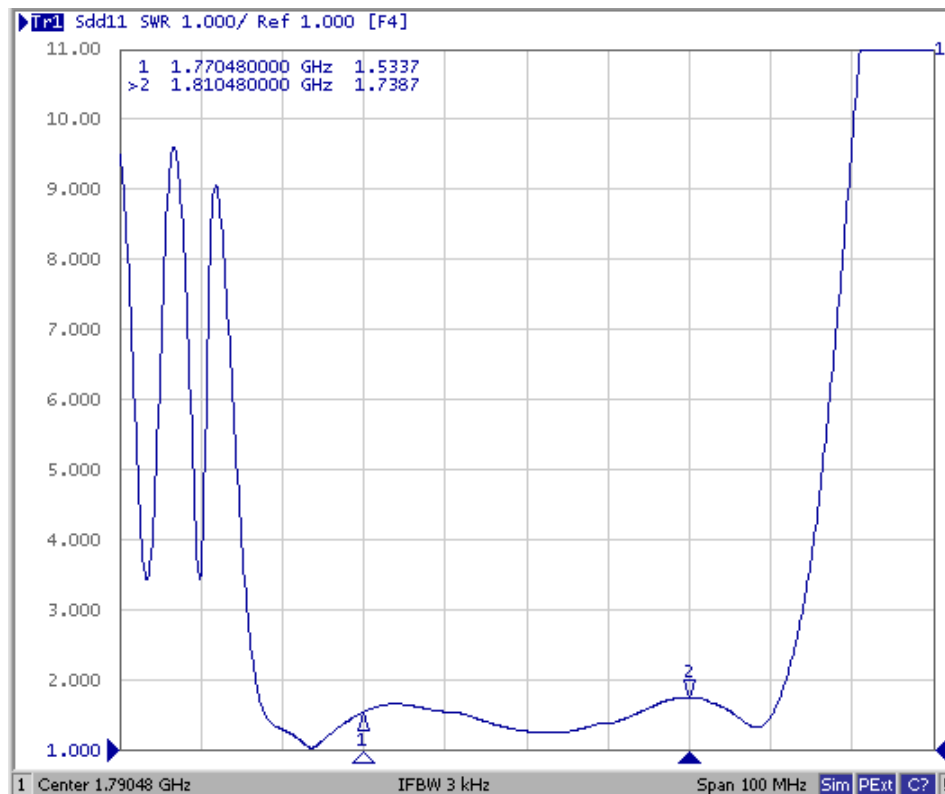
F. Frequency Characteristics:



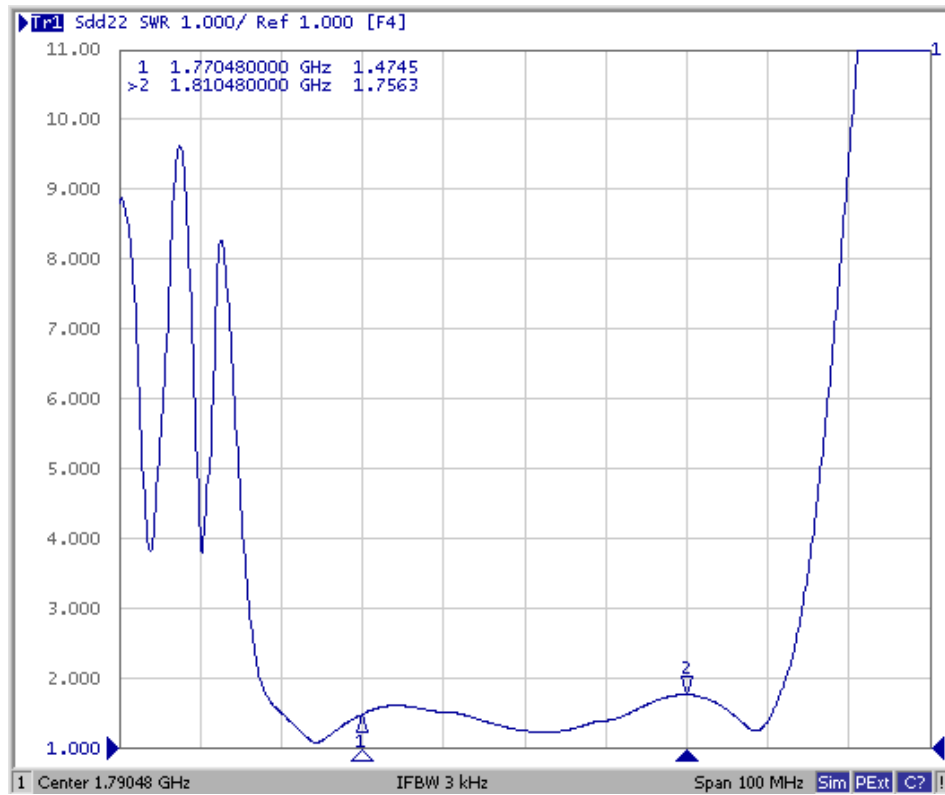


Reflection Functions:

S11



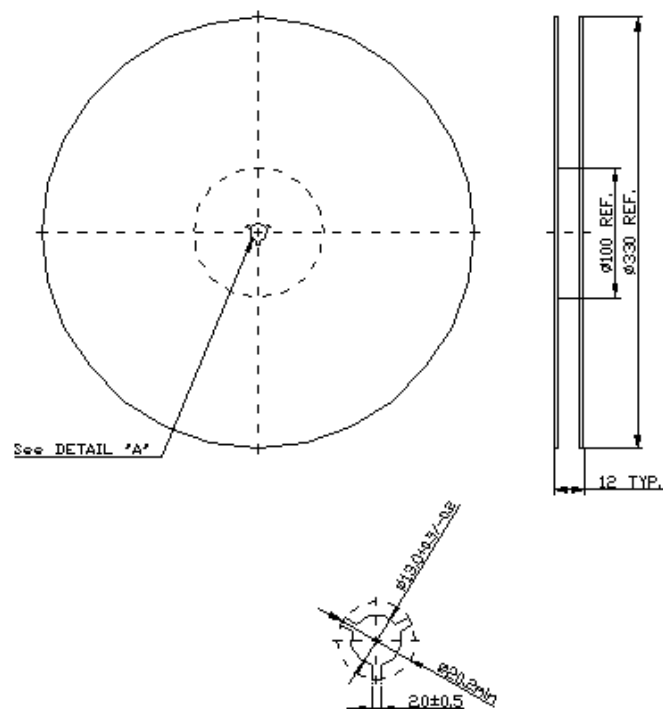
S22



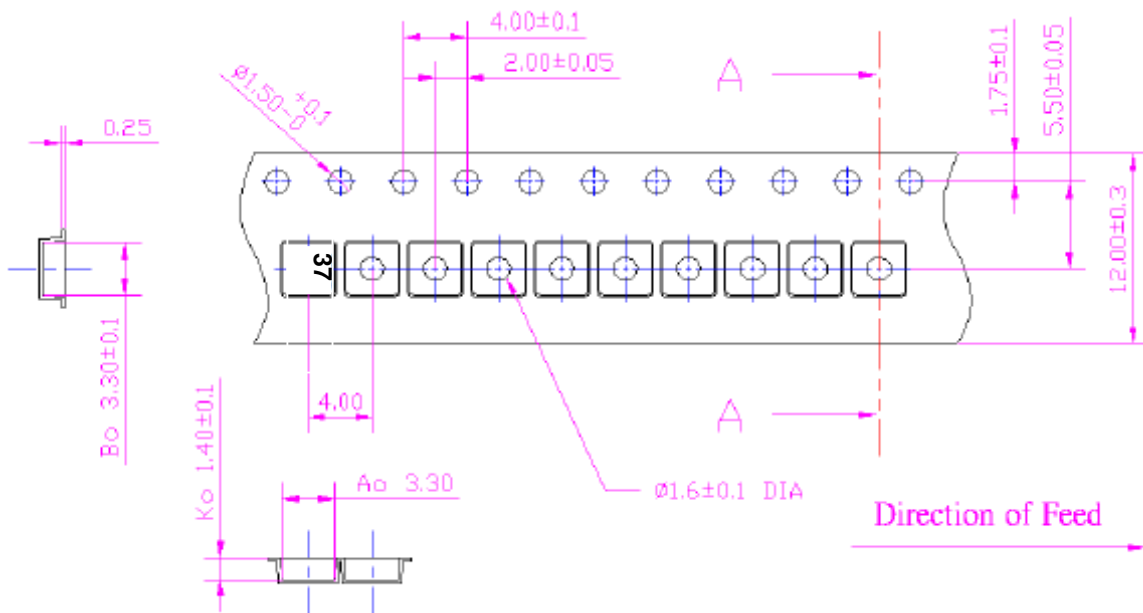
G. PACKING:

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℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.

