TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 1210 MHz SMD 3.0x3.0 mm (BW=60 MHz)

TST Part No.: TA1029B

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: David Chang 張閔智

Approved by: Bob Chau

Date: 2013/10/26

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 1210 MHz

MODEL NO.: TA1029B REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m

2.DC voltage: 3 V

3.Operating Temperature: -40°C to 85°C

4.Storage Temperature: -50°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. CHARACTERISTICS:

Terminating source impedance (differential): Zs=150Ω // 82nH

Terminating load impedance (differential): ZL=150Ω // 82nH

Item	Unit	Min.	Typ.	Max.	Note
Center frequency Fc	MHz	-	1210	-	-
Bandwidth at -2 dB	MHz	56	74	-	-
Insertion Loss in 1180~1240 MHz	dB	-	3.7	5	-
Amplitude ripple (1180 MHz~1240 MHz)	dB	-	1	2	-
Phase error (1180 MHz~1240 MHz) (3)	deg	-	3.5	5	-
I/O VSWR (1180 MHz~1240 MHz)	-	-	1.8	2.5	-
CMDR (1180 MHz~1240 MHz)	dB	22	35		-
Attenuation (1)					
50 ~ 960 MHz	dB	32	35	-	-
960 ~ 1120 MHz	dB	40	43	-	-
1315 ~ 2500 MHz	dB	40	43	-	-
2500 ~ 3200 MHz	dB	35	39	-	-
3200 ~ 6000 MHz	dB	30	33	-	-

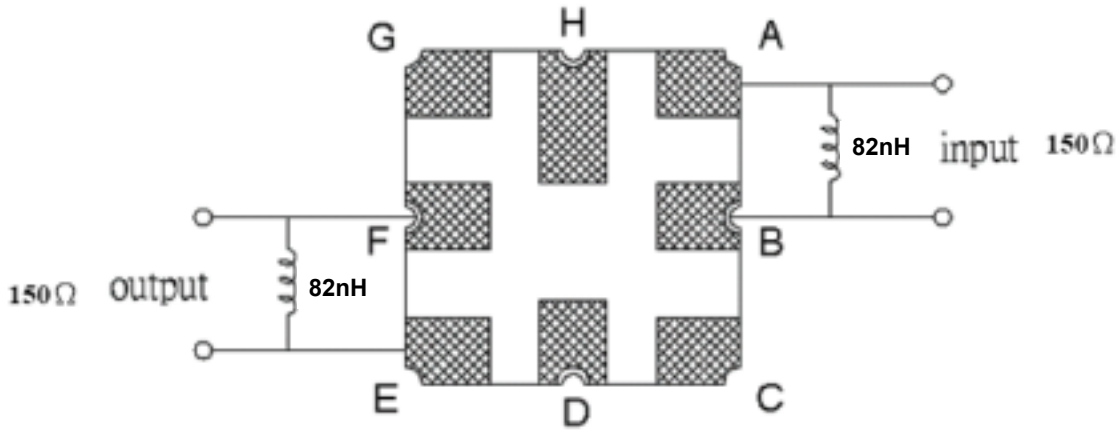
Notes:

(1) The amplitude reference is insertion loss at Fc.

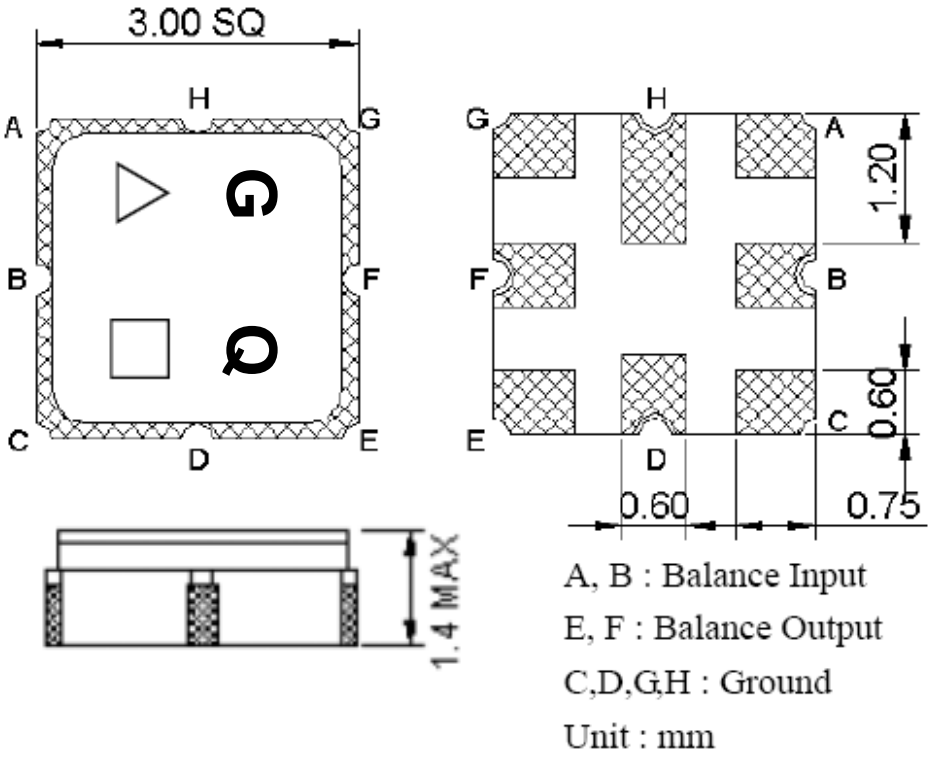
(2) The amplitude ripple is defined as the max. level – min. level over any 36 MHz block of the given bandwidth.

(3) The phase error is measured over any 36 MHz block of the given bandwidth.

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



A, B : Balance Input

E, F : Balance Output

C,D,G,H : Ground

Unit : mm

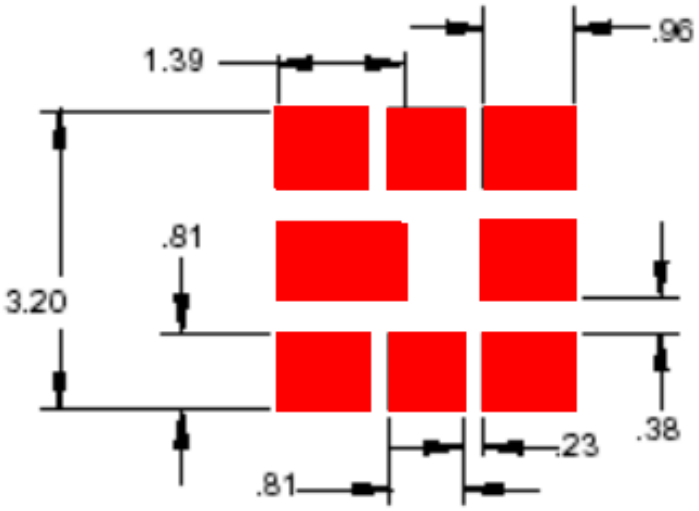
△: Year Code(2011->1, 2012->2, …, 2019->9, 2020->0)

□: Date Code

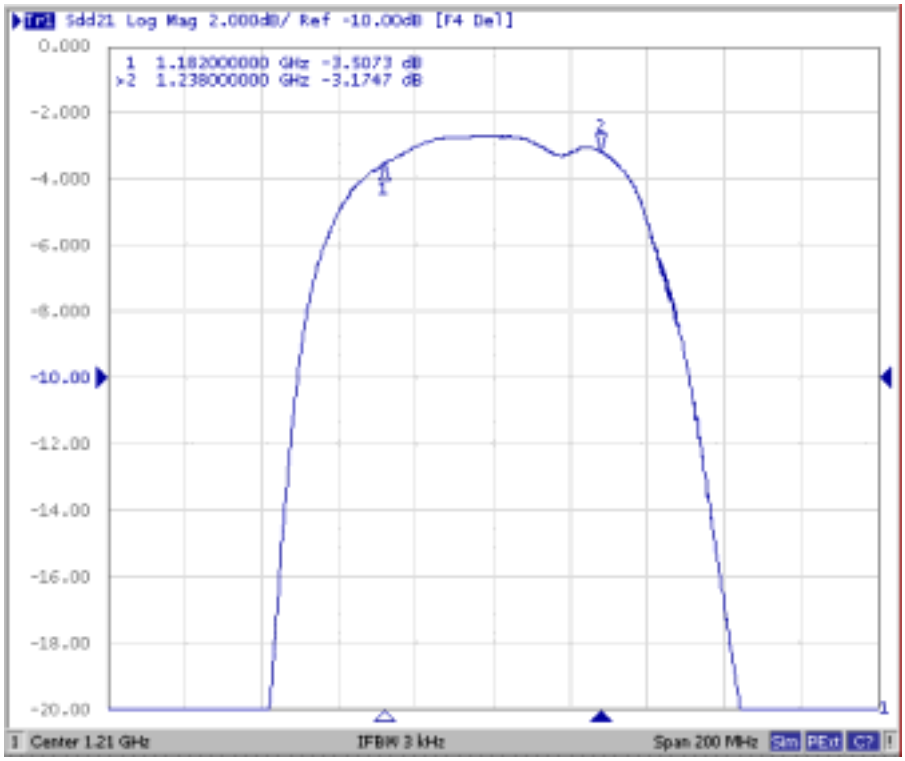
Date Code Table:

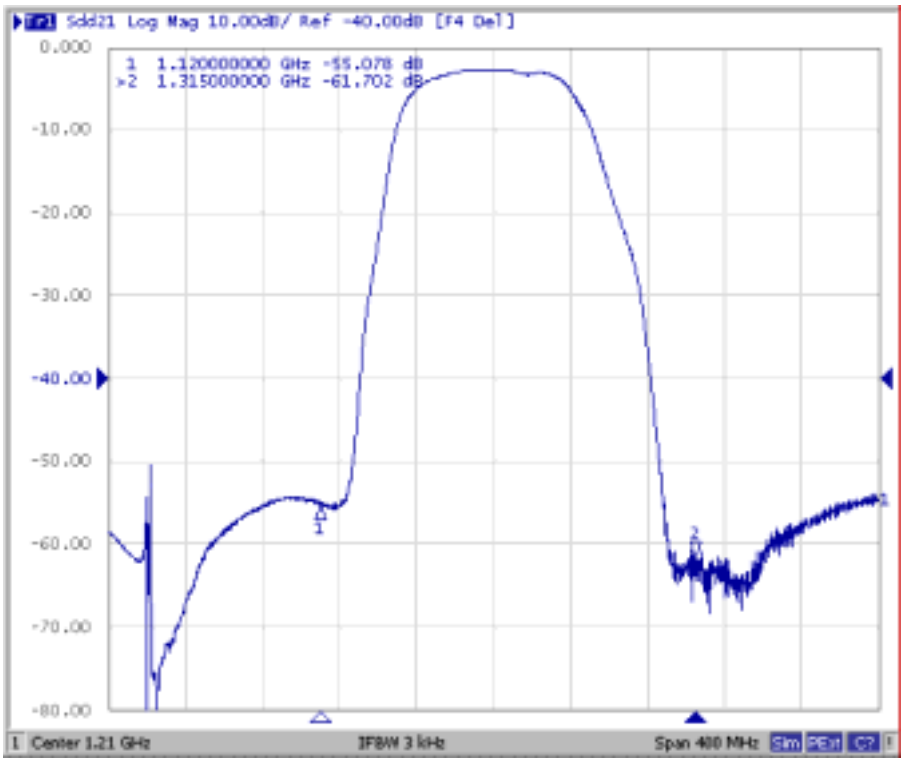
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. PCB FOOTPRINT:

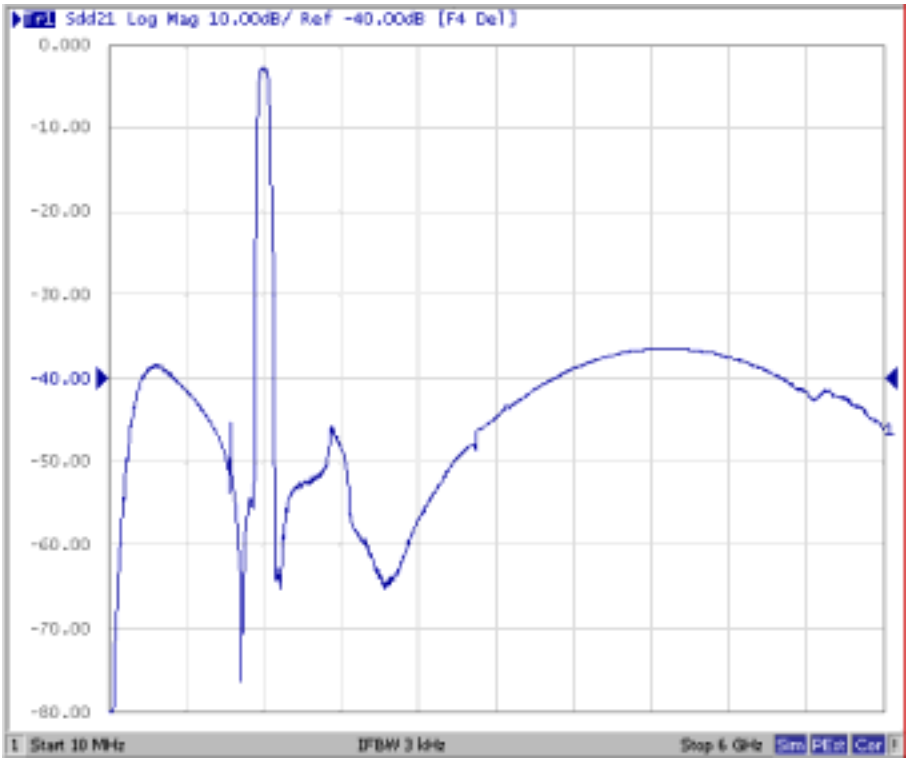


F. Frequency Characteristics:



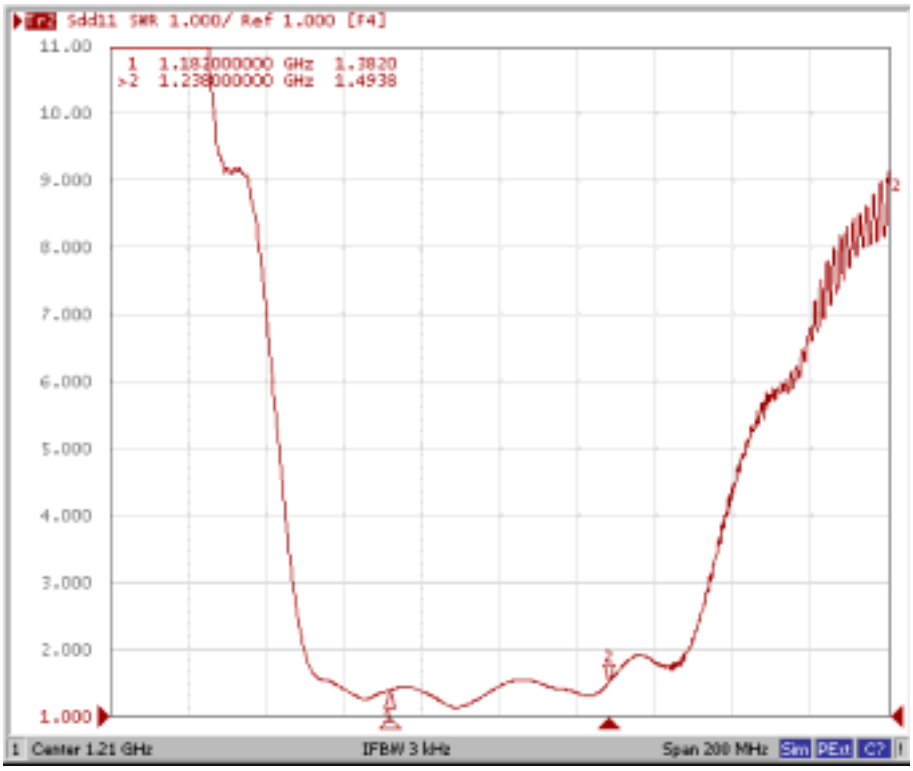

Sdd21 Log Mag 10.00dB/ Ref -40.00dB [F4 Del]
1 1.120000000 GHz -55.078 dB
>2 1.315000000 GHz -61.702 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
Center 1.21 GHz
IFBW 3 kHz
Span 400 MHz

(wideband)

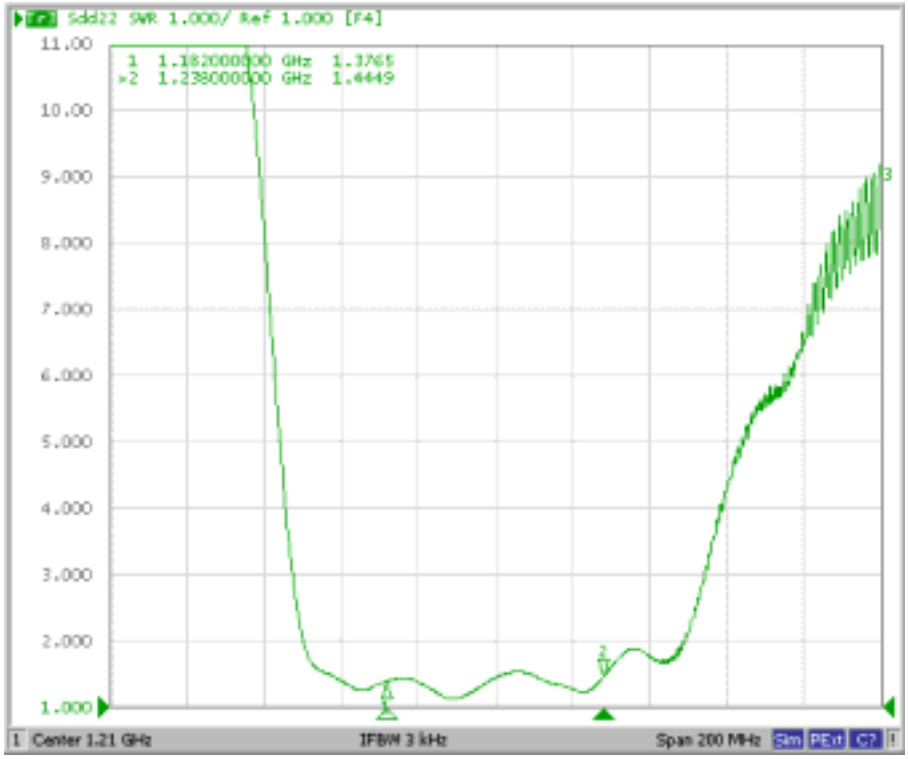

Sdd21 Log Mag 10.00dB/ Ref -40.00dB [F4 Del]
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
Start 10 MHz
IFBW 3 kHz
Stop 6 GHz

Reflection Functions:

S11



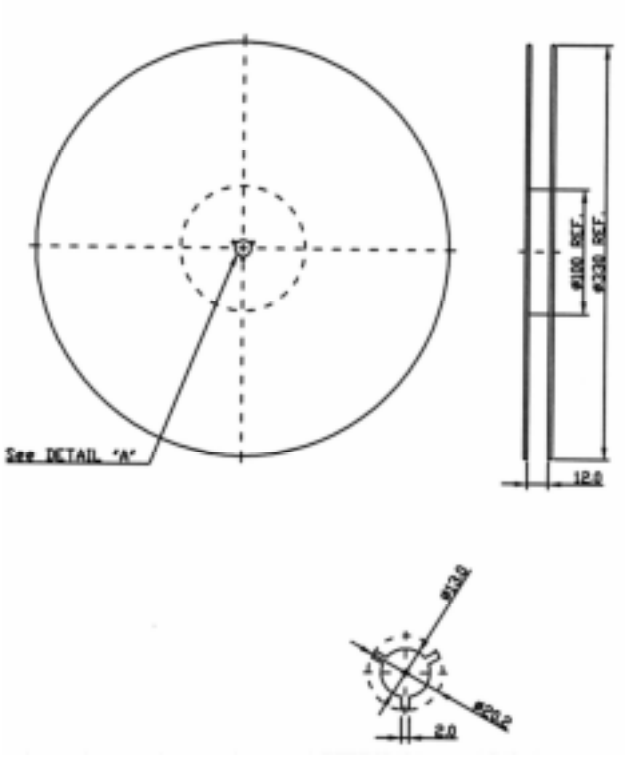
S22



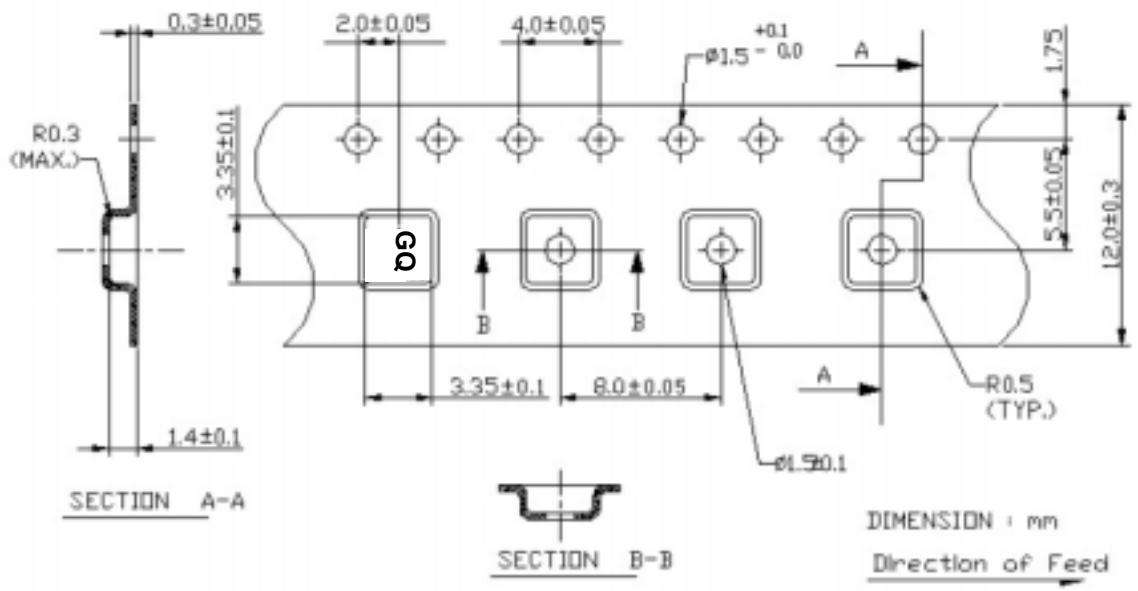
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE: