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

Issued Date: April, 30, 2013

Product Description: SAW Filter 1247.5MHz SMD 3.0X3.0 mm (BW=19MHz)

TST Part No.: TA0548A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Paul Ni Paul Ni

Approved by: Bob Chan

Date: 2013/4/30

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 1247.5MHz

MODEL NO.: TA0548A REV. NO：1.0

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m

2.DC voltage: 3 V

3.Operating Temperature: -55°C to +60°C

4. Storage Temperature: -55°C to +60°C

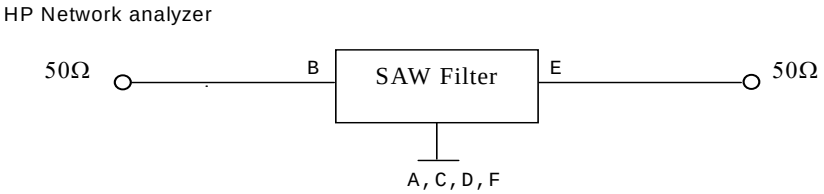
B. ELECTRICAL CHARACTERISTICS by 20 ^{0}C

Item		Min.	Typ.	Max.
Center frequency **Fc**	MHz	-	1247.5	-
Insertion loss **IL**	dB	-	2.6	5.0
Amplitude ripple (1238 ~ 1257MHz)	dB	-	0.9	1.45
Group Delay Variation(1238 ~ 1257MHz)	ns	-	10.0	15.0
VSWR (1238 ~ 1257MHz)			1.45	2.2
Attenuation (Reference level from 0 dB)				
20.000 ~ 1200.0 MHz	dB	35	53	-
1295.0 ~ 2500.0 MHz	dB	35	45	-
Temperature Coefficient	ppm/℃	-	-36	-
Source impedance **Zs**	Ω	-	50	-
Load impedance **Z_L**	Ω	-	50	-

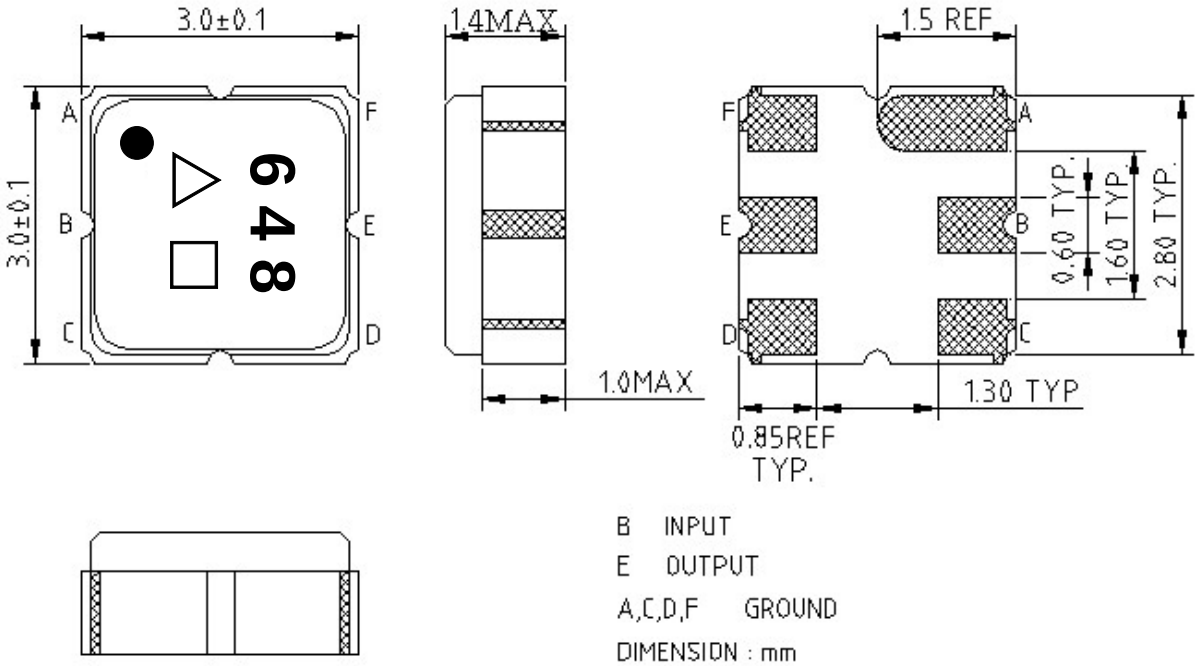
Deviation of Center and Bounder Frequencies in temperature range from –55 ^{0}C to +60 ^{0}C by TCD = -30 ppm/grad (for reference)

C. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended / single-ended)



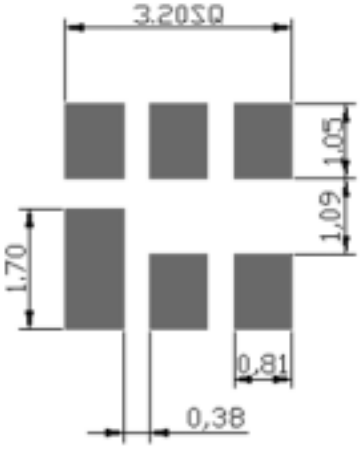
D.OUTLINE DRAWING:



△ : Year Code(2009➔9,2010➔0…2019➔9)

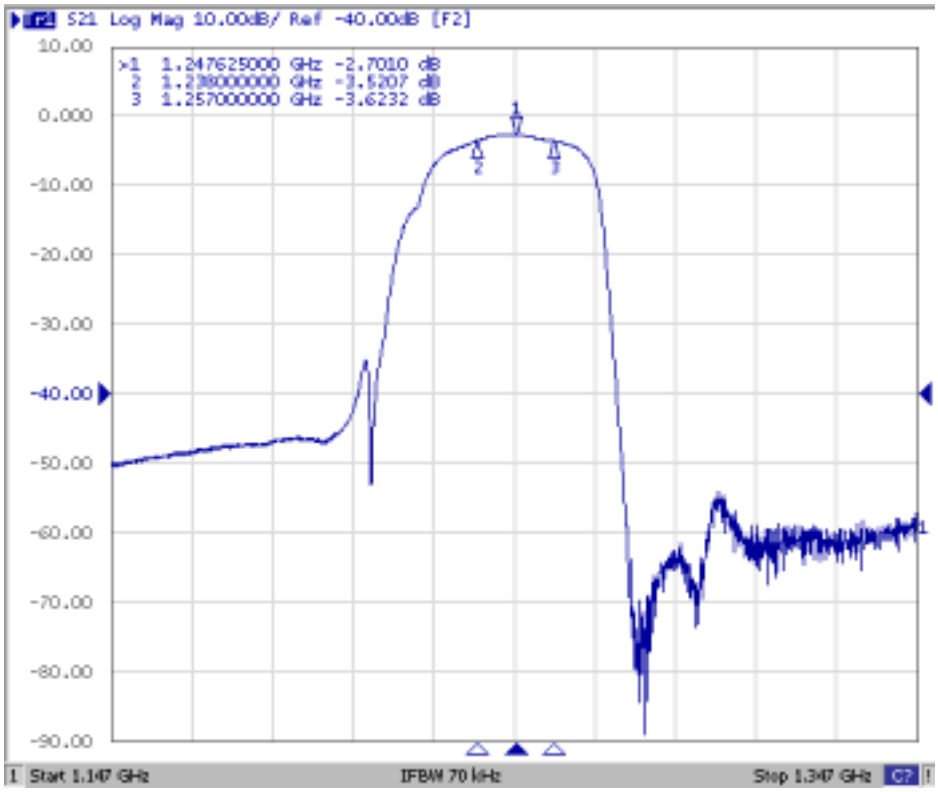
□ : Date Code(Follow the table from planner each year)

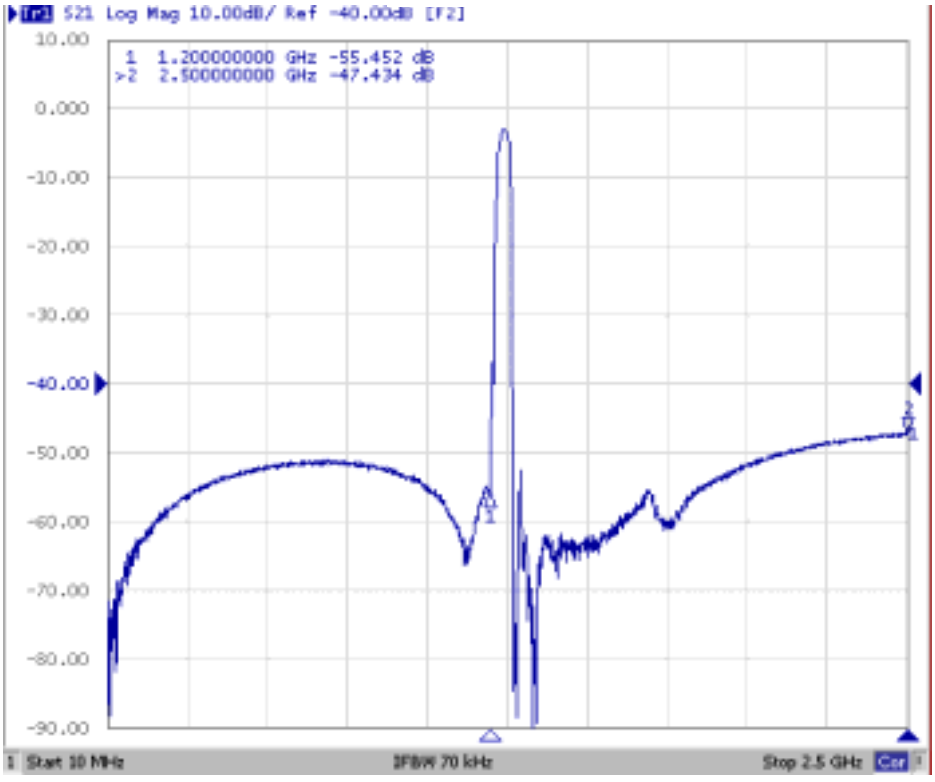
E. PCB Footprint：



F. Frequency Characteristics :

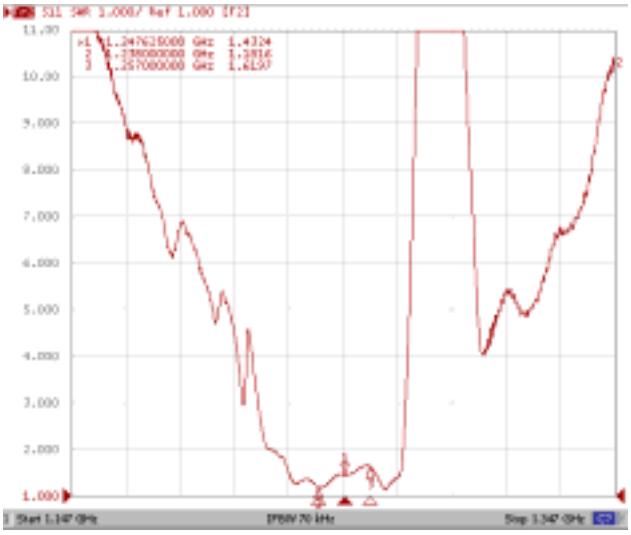
Transfer function

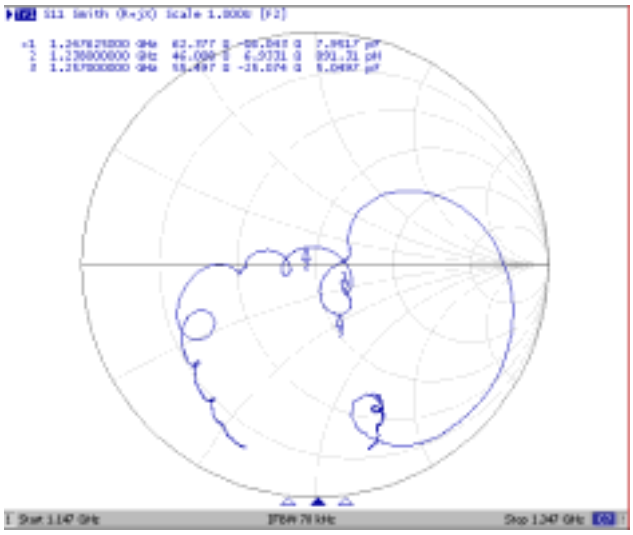




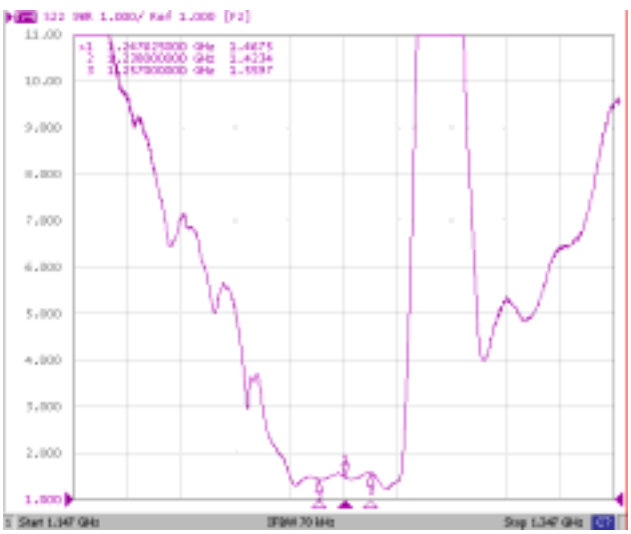
Reflection Functions：

S11

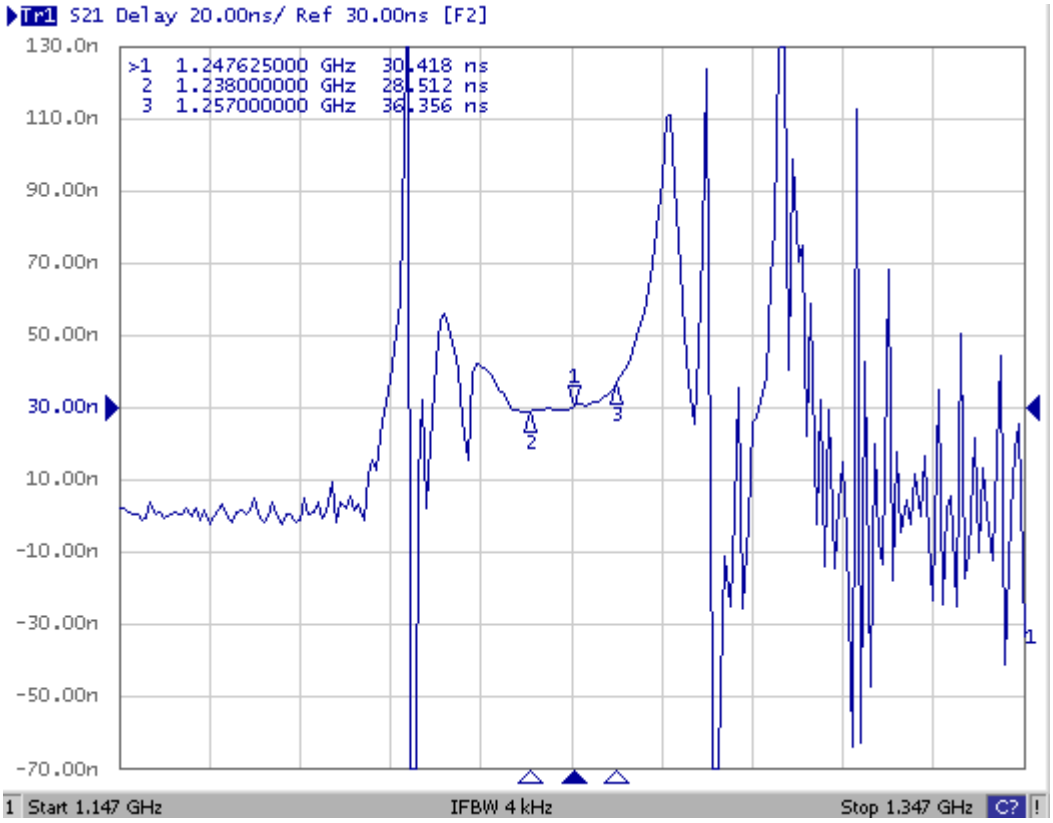




S22

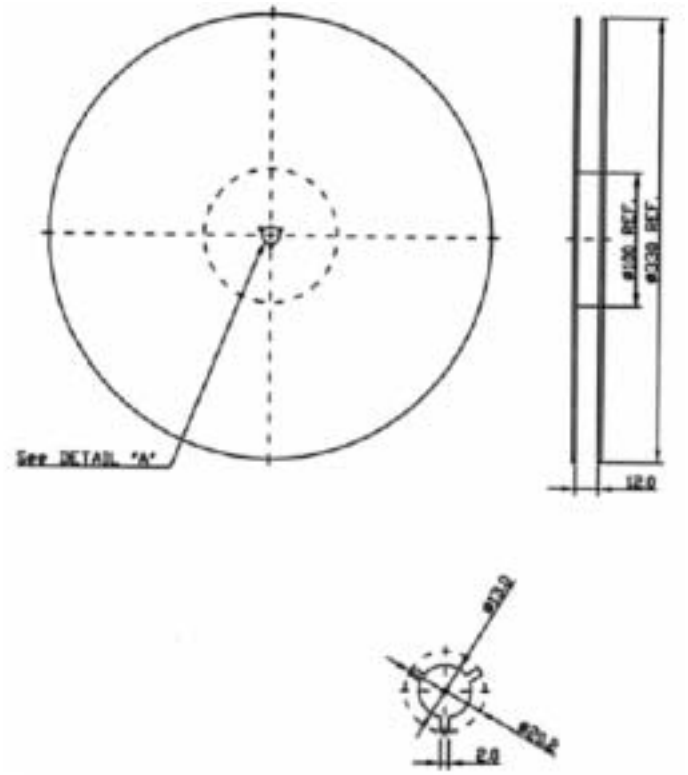


GDT, ns

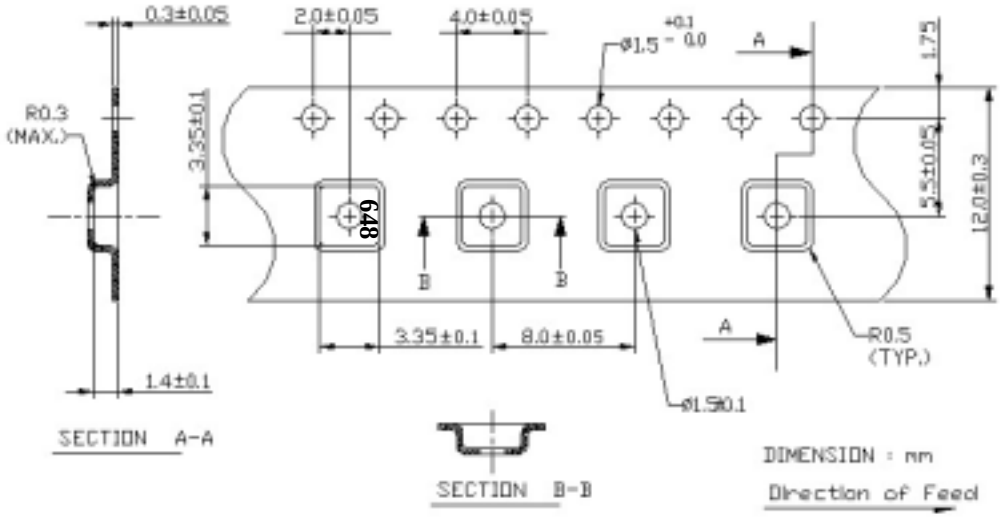

Tr1 S21 Delay 20.00ns/ Ref 30.00ns [F2]
>1 1.247625000 GHz 30.418 ns
2 1.238000000 GHz 28.512 ns
3 1.257000000 GHz 36.356 ns
130.0n
110.0n
90.00n
70.00n
50.00n
30.00n
10.00n
-10.00n
-30.00n
-50.00n
-70.00n
1 Start 1.147 GHz
IFBW 4 kHz
Stop 1.347 GHz

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE: