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
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Product Specifications Approval Sheet

Issued Date: August , 10, 2011

Product Name: SAW Filter 915 MHz SMD 3.0x3.0 mm(BW=1MHz)

TST Parts No.:TA1392A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Paul Ni Paul Ni

Approval by:_____ Francis Chen

Date:_____ 08, 10, 2011

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 915 MHz

MODEL NO.:TA1392A REV. NO：1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 6V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

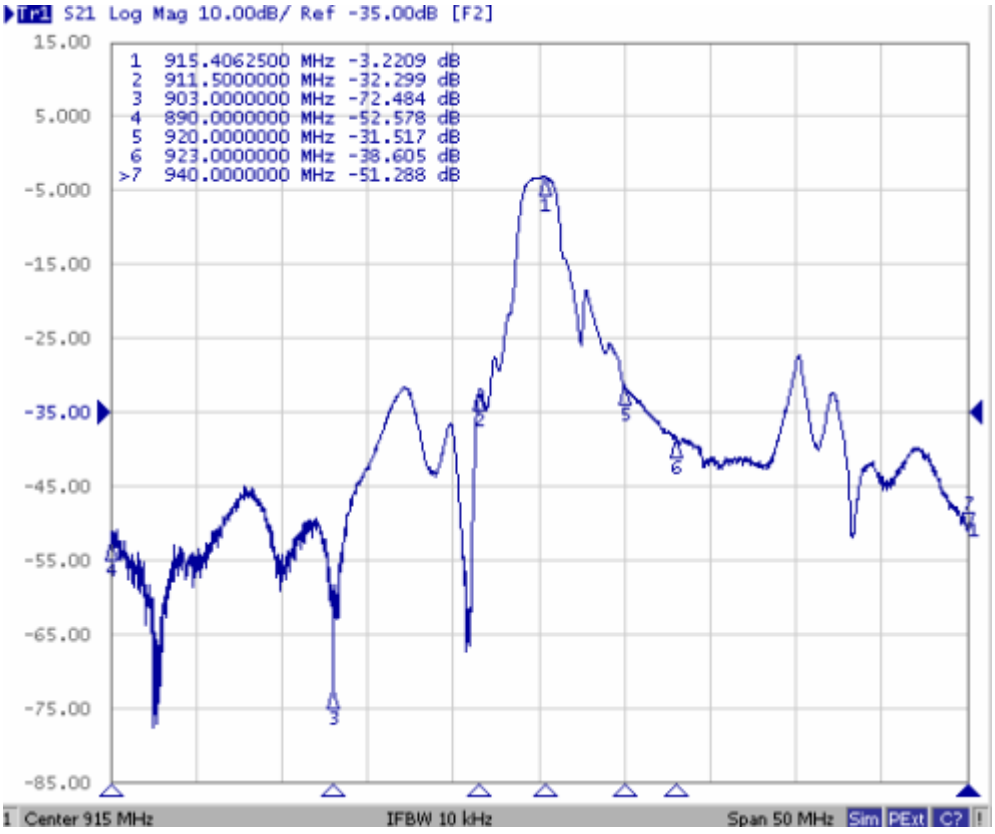
B. ELECTRICAL CHARACTERISTICS:

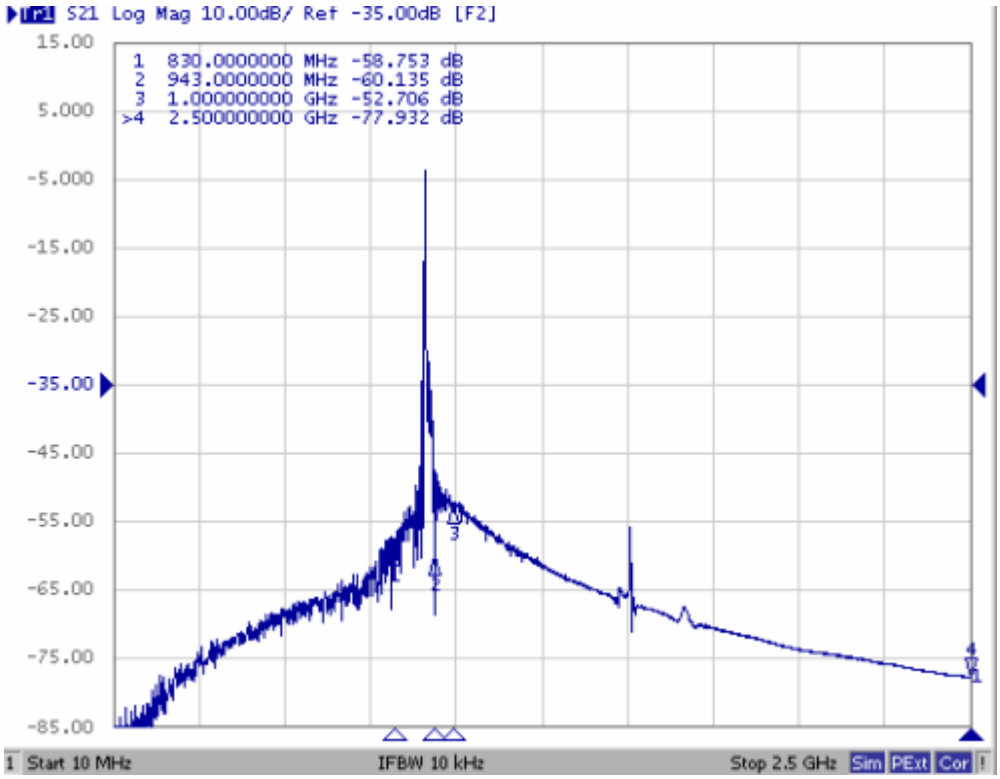
Item		Unit	Min.	Typ.	Max.
Center frequency	**Fc**	MHz	-	915	-
3dB BW		MHz	-	2.0	-
Minimum insertion loss	**IL(min)**				
Exclude loss in matching elements *1)		dB	-	2.7	4.0
Incl. loss of matching elements(Q=89) *2)		dB	-	3.9	5.0
Passband (relative to IL_{min}) *1)					
914.50 ~ 915.50 MHz		dB	-	0.4	2.5
914.30 ~ 915.70 MHz		dB	-	1.0	5.0
Attenuation (relative to IL_{min}) *1)					
10.000 ~ 830.00	MHz	dB	47	53	-
830.00 ~ 890.00	MHz	dB	41	46	-
890.00 ~ 903.00	MHz	dB	36	42	-
903.00 ~ 911.50	MHz	dB	19	28	-
920.00 ~ 923.00	MHz	dB	19	28	-
923.00 ~ 943.00	MHz	dB	19	24	-
943.00 ~ 1000.0	MHz	dB	37	43	-
1000.0 ~ 2500.0	MHz	dB	43	48	-
Impedance at Fc, Input *1) **Zin = Rin//Cin**	Zs	Ω		354Ω//1.88pF	
Impedance at Fc, Output *1) **Zout = Rout//Cout**	ZL	Ω		334Ω//1.93pF	

*1)： The matching circuit is ideal by simluation.

*2)： The matching circuit is real by actual passive components.
0805 Coillcraft CS series chip conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

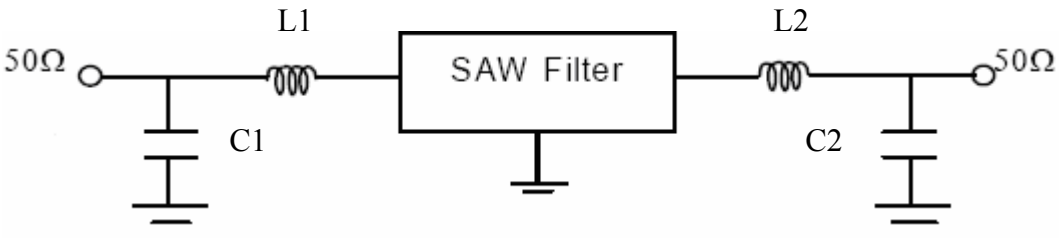
C. Frequency Characteristics :




S21 Log Mag 10.00dB/ Ref -35.00dB [F2]
1 830.0000000 MHz -58.753 dB
2 943.0000000 MHz -60.135 dB
3 1.000000000 GHz -52.706 dB
>4 2.500000000 GHz -77.932 dB
15.00
5.000
-5.000
-15.00
-25.00
-35.00
-45.00
-55.00
-65.00
-75.00
-85.00
1 Start 10 MHz
IFBW 10 kHz
Stop 2.5 GHz
Sim
PExt
Cor

D. MEASUREMENT CIRCUIT:

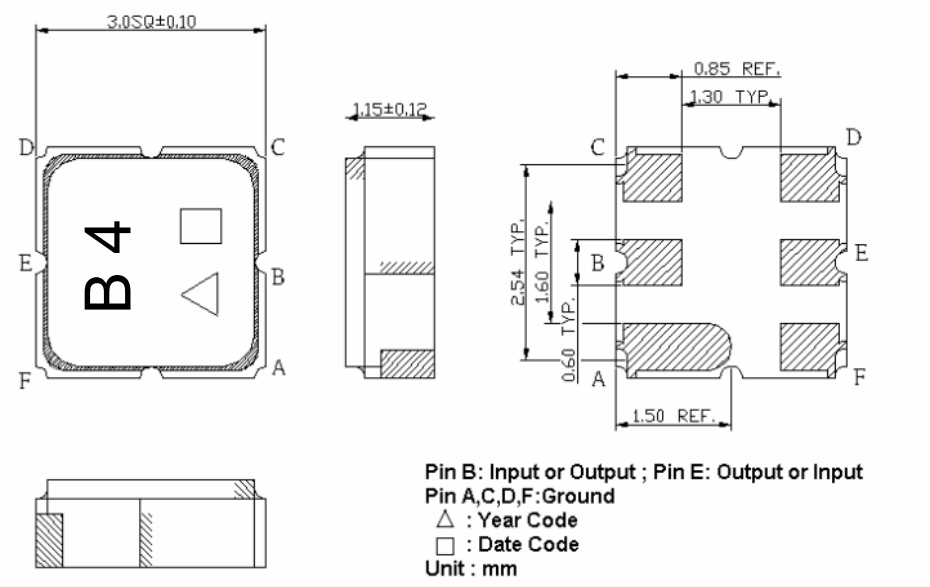
The matching circuit is ideal by simulation



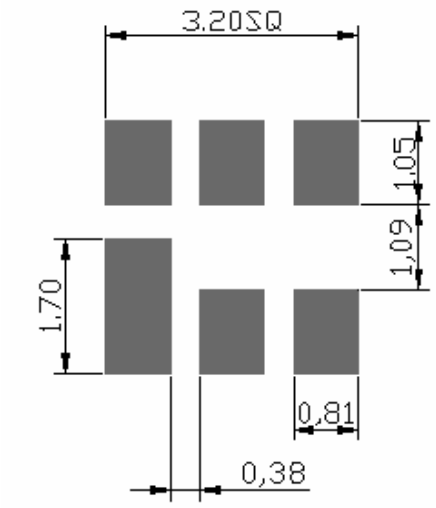
L1：34nH , L2：33nH (Ideal value)

C1：1.6 pF , C2：1.6pF (Ideal value)

E.OUTLINE DRAWING:

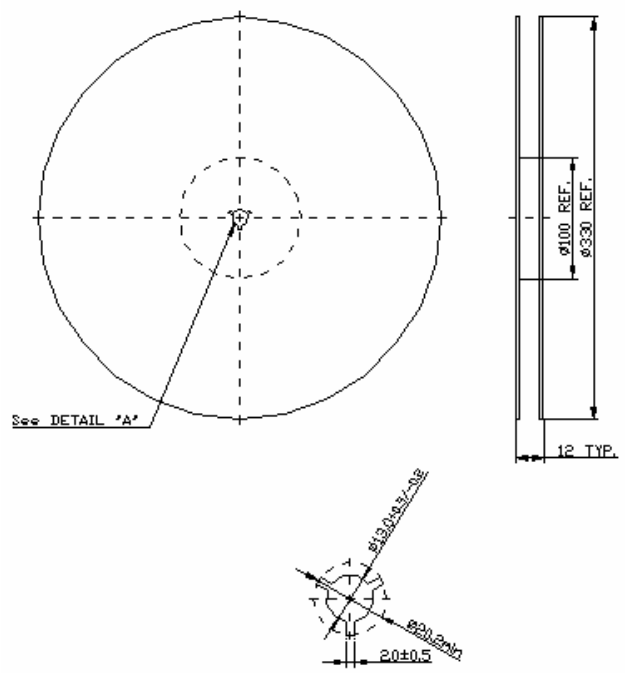


F. PCB Footprint:

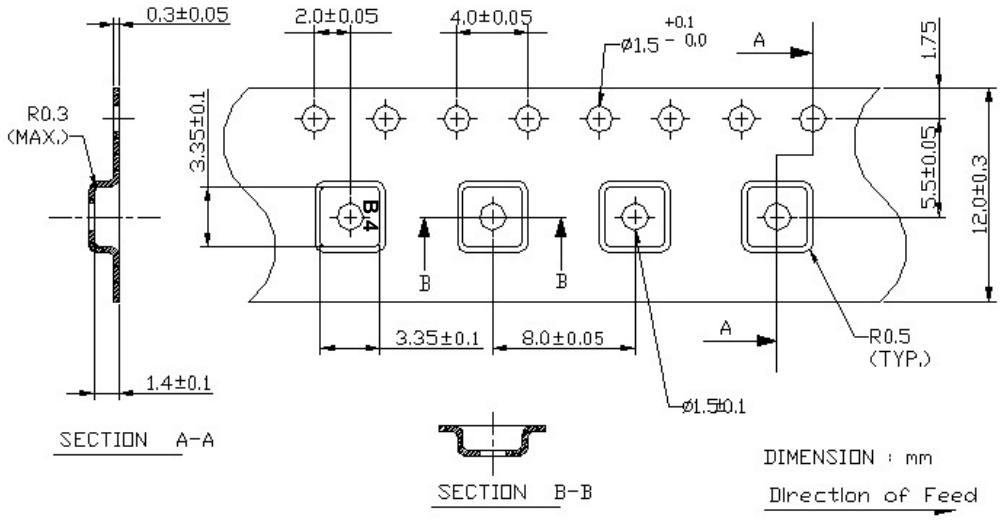


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :