



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: Jan , 04, 2012

Product Description: SAW Filter 902.875MHz SMD 3.0X3.0 mm(BW=1.35MHz)

TST Part No.: TA1331A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Paul Ni *Paul Ni*

Approved by: _____ Francis Chen *APD*

Date: _____ 2012/01/04

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.

SAW Filter 902.875 MHz

MODEL NO.:TA1331A

REV. NO : 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 6V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

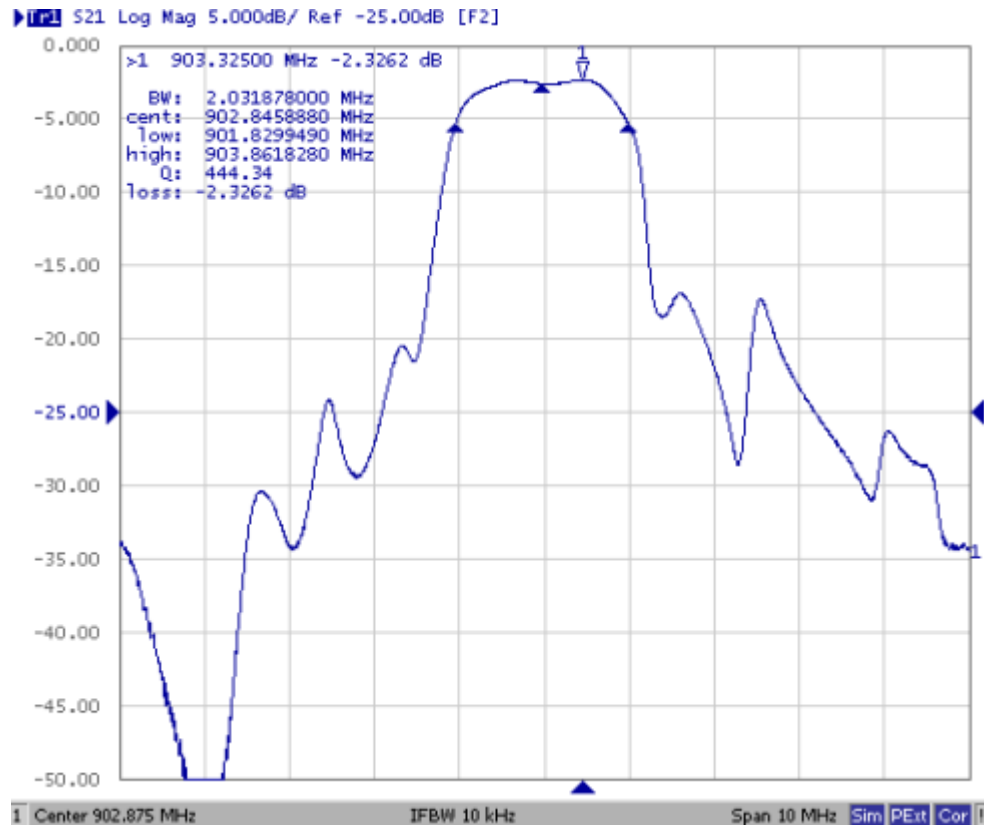
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	902.875	-
3dB BW	MHz	-	2.0	-
Minimum insertion loss IL(min)				
Exclude loss in matching elements *1)	dB	-	2.4	3.6
Incl. loss of matching elements(Q=89) *2)	dB	-	3.4	4.6
Passband (relative to IL _{min}) *1)				
902.20 ~ 903.55 MHz	dB	-	1.5	3.0
902.10 ~ 903.65 MHz	dB	-	2.0	5.0
Attenuation (relative to IL _{min}) *1)				
10.000 ~ 820.00 MHz	dB	47	53	-
820.00 ~ 884.00 MHz	dB	42	48	-
884.00 ~ 892.00 MHz	dB	37	43	-
892.00 ~ 900.50 MHz	dB	15	21	-
906.00 ~ 910.50 MHz	dB	15	21	-
910.50 ~ 929.00 MHz	dB	22	28	-
929.00 ~ 945.00 MHz	dB	38	44	-
945.00 ~ 1000.0 MHz	dB	41	47	-
1000.0 ~ 2000.0 MHz	dB	37	43	-
2000.0 ~ 2500.0 MHz	dB	55	66	-
Impedance at Fc, Input *1) Z _{in} = R _{in} //C _{in} Z _s	Ω	579Ω//1.0pF		
Impedance at Fc, Output *1) Z _{out} = R _{out} //C _{out} Z _L	Ω	579Ω//1.0pF		

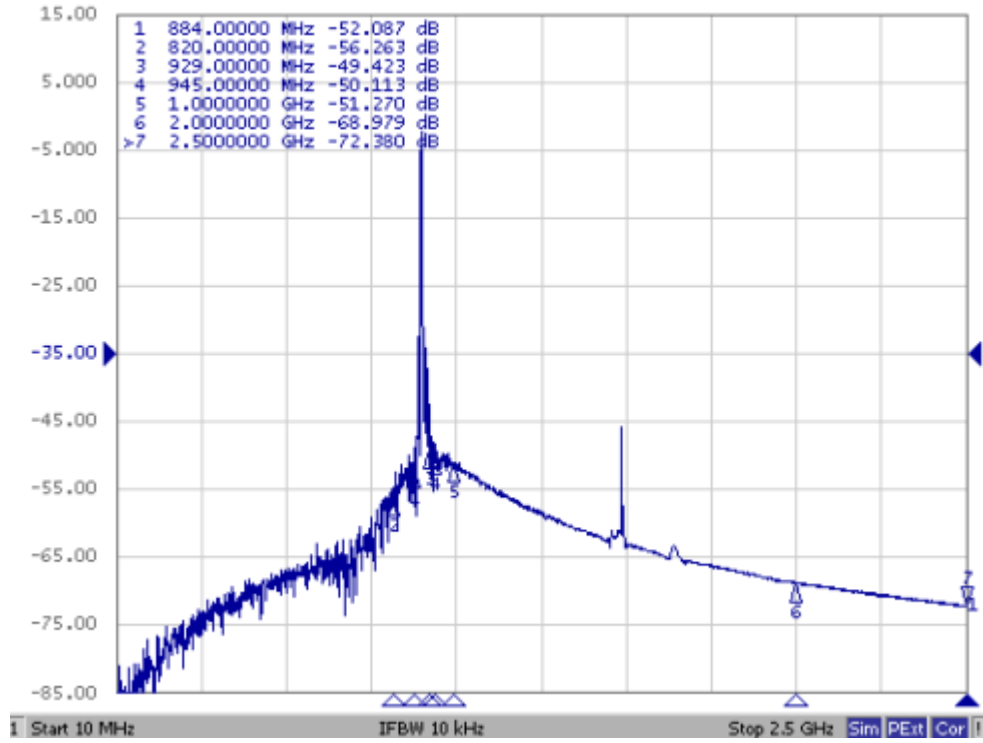
*1) : The matching circuit is ideal by simulation.

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

C. Frequency Characteristics :

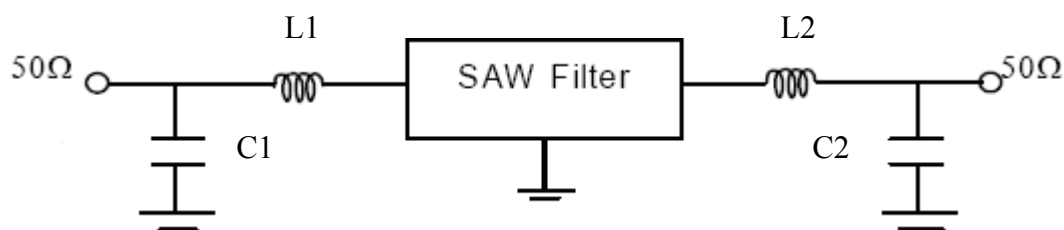


▶ **Fig 2** S21 Log Mag 10.00dB/ Ref -35.00dB [F2]



D. MEASUREMENT CIRCUIT:

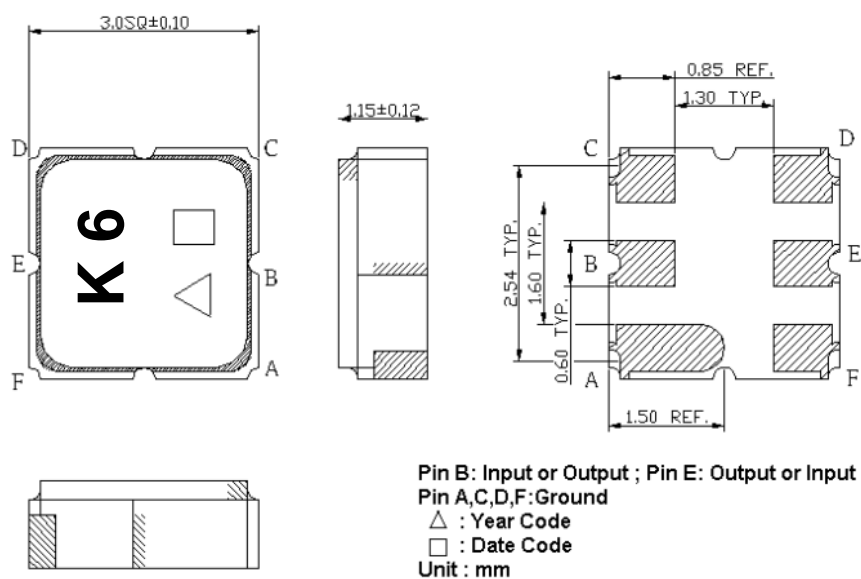
The matching circuit is ideal by simulation



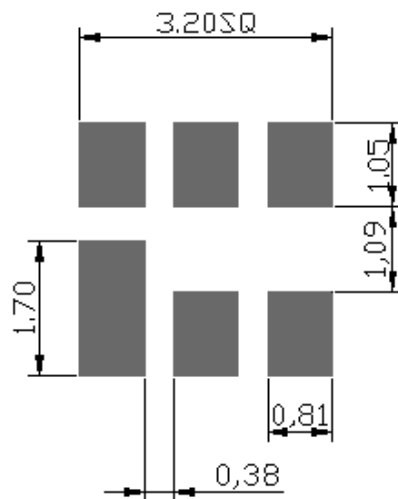
L1 : 30nH , L2 : 30nH (Ideal value)

C1 : 1.0 pF , C2 : 1.0pF (Ideal value)

E.OUTLINE DRAWING:

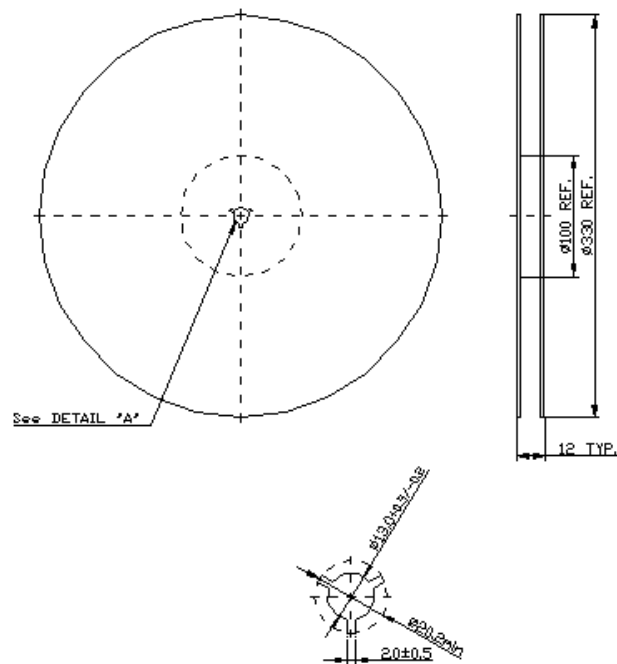


F. PCB Footprint:

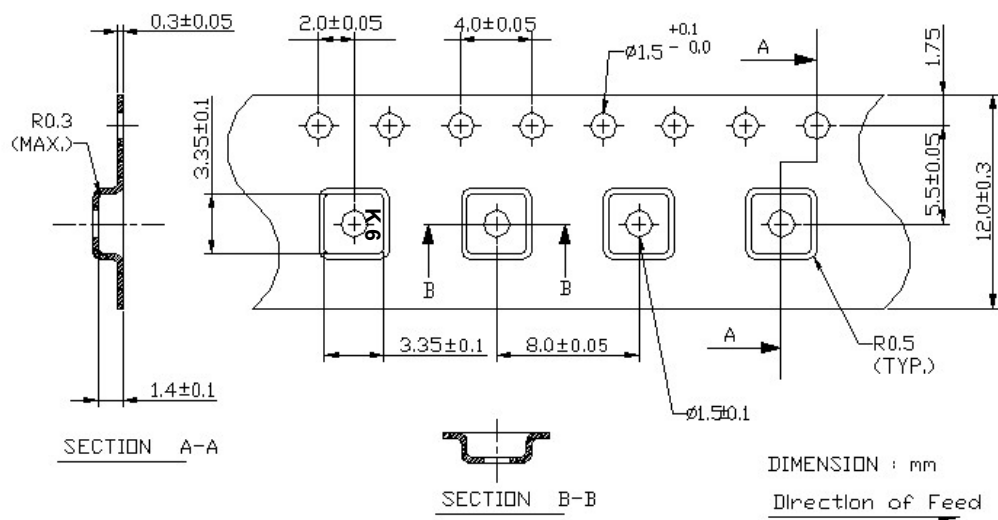


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

