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: May , 02, 2012

Product Name: SAW Filter 428.55 MHz SMD 3.0x3.0 mm(BW=0.4MHz)

TST Parts No.:TA1484A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Paul Ni _____ Paul Ni

Approval by:_____ Francis Chen _____

Date:_____ 05, 02, 2012 _____

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 428.55 MHz

MODEL NO.:TA1484A REV. NO：1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

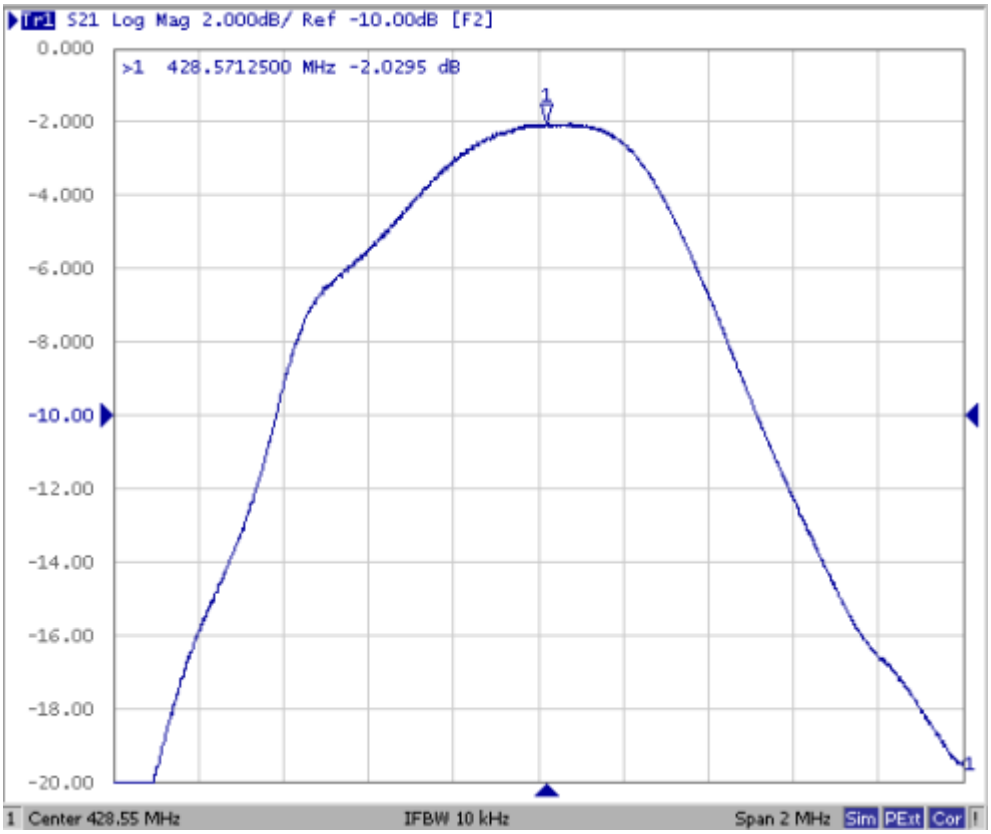
Electrostatic **S**ensitive **D**evice

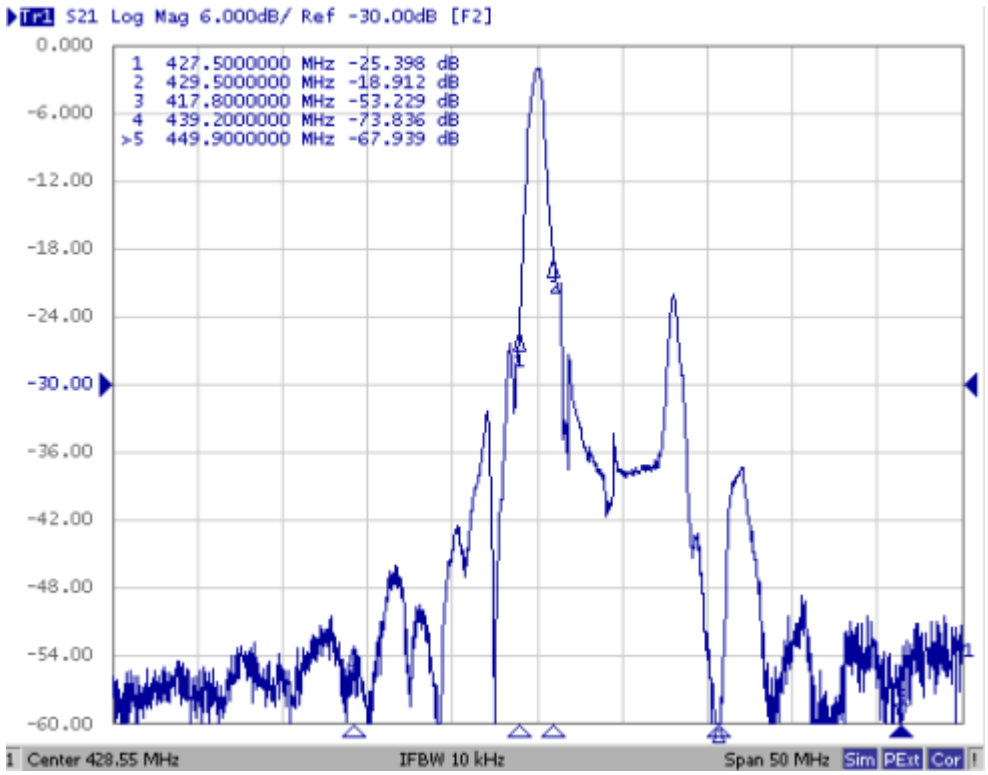
B. ELECTRICAL CHARACTERISTICS:

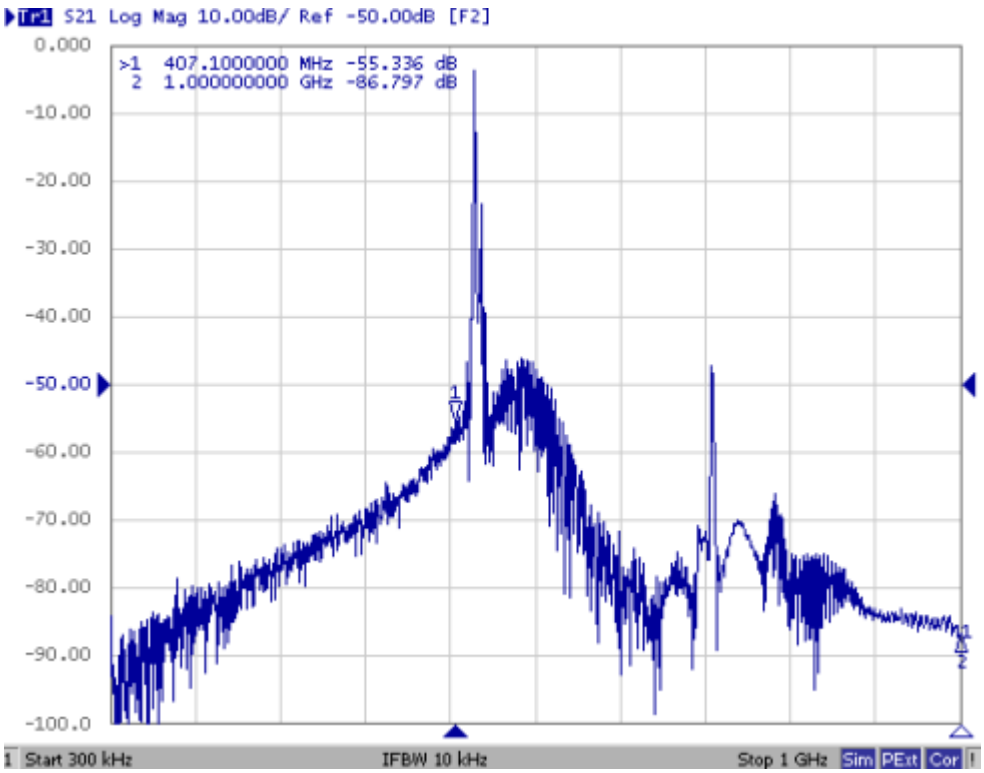
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	428.55	-
3dB BW	KHz	-	680	-
Upper frequency of 3dB relative to minimum IL	MHz	428.75	-	
Lower frequency of 3dB relative to minimum IL	MHz	-	-	428.35
Minimum insertion loss IL(min)				
Exclude loss in matching elements *1)	dB	-	2.0	3.0
Incl. loss of matching elements(Q=77) *2)	dB	-	2.3	3.3
Attenuation (relative to IL_{min}) *1)				
@ f = 407.1 MHz	dB	47	54	-
@ f = 417.8 MHz	dB	40	54	-
@ f = 427.5 MHz	dB	15	23	-
@ f = 429.5 MHz	dB	15	18	-
@ f = 439.2 MHz	dB	40	55	-
@ f = 449.9 MHz	dB	47	54	-
@ f = 1000.0 MHz	dB	47	68	-
Impedance at Fc, Input *1) **Zin = Rin//Cin** Zs	Ω		1232Ω//1.52pF	
Impedance at Fc, Output *1) **Zout = Rout//Cout** Z_L	Ω		1232Ω//1.52pF	

*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 :

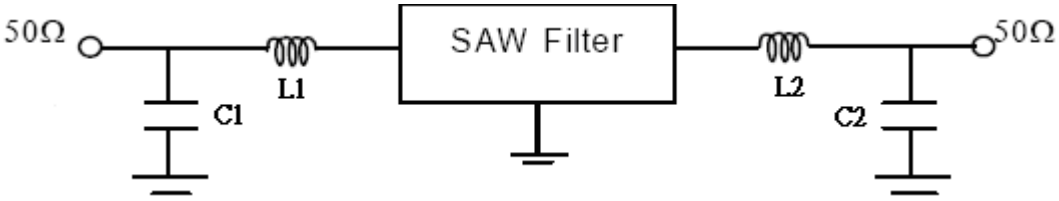






D. MEASUREMENT CIRCUIT:

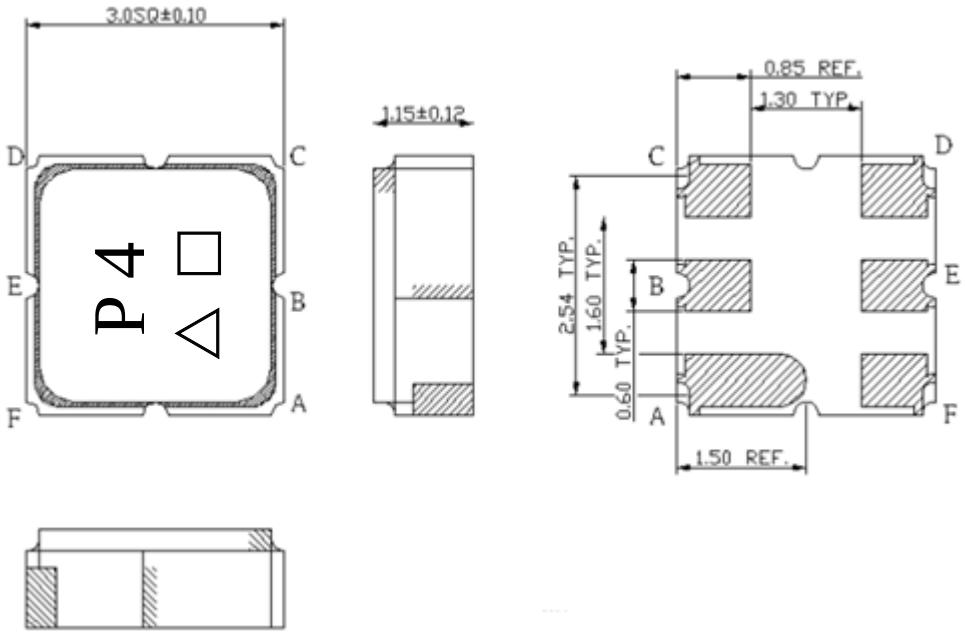
The matching circuit is ideal by simulation



L1：92nH , L2：92nH (Ideal value)

C1：2 pF , C2：2pF (Ideal value)

E.OUTLINE DRAWING:



#B：Input ， #E：Output， #A,C,D,F：Ground

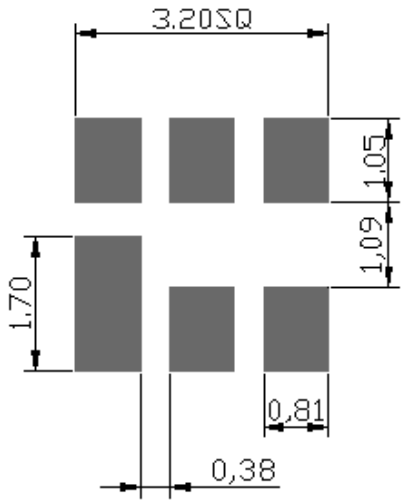
△：Year code(2012->2, …, 2019->9)

□：Data code

Unit：mm

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

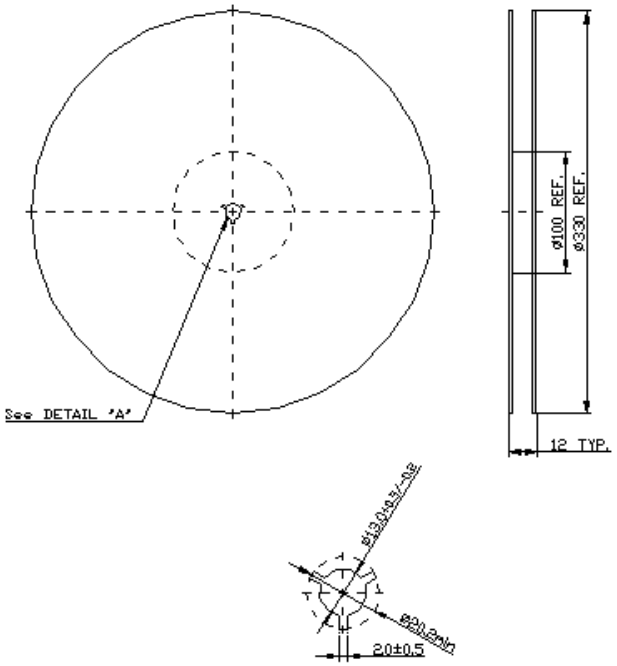
F. PCB Footprint:



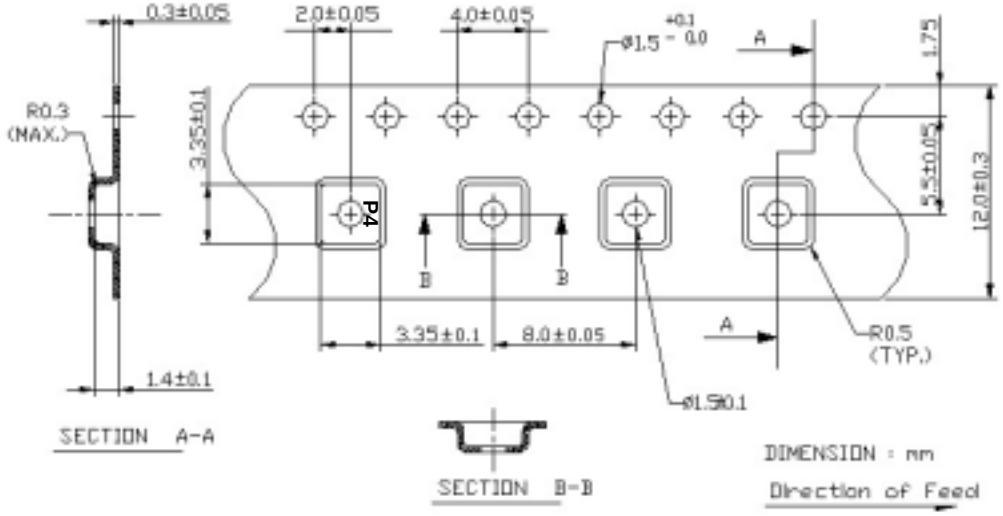
G. PACKING:

1. REEL DIMENSION

7" reel = 1000 typ , 13" reel = 3000 typ, or per the reqeust of customer order.



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :