



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: 836.5 MHz 2MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Part No.: TA1415A

Customer Part No.: _____

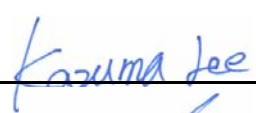
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approved by: _____ Bob Chau 

Date: _____ 03 / 10 / 2014

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 836.5 MHz

MODEL NO.:TA1415A

REV. NO : 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 12V
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

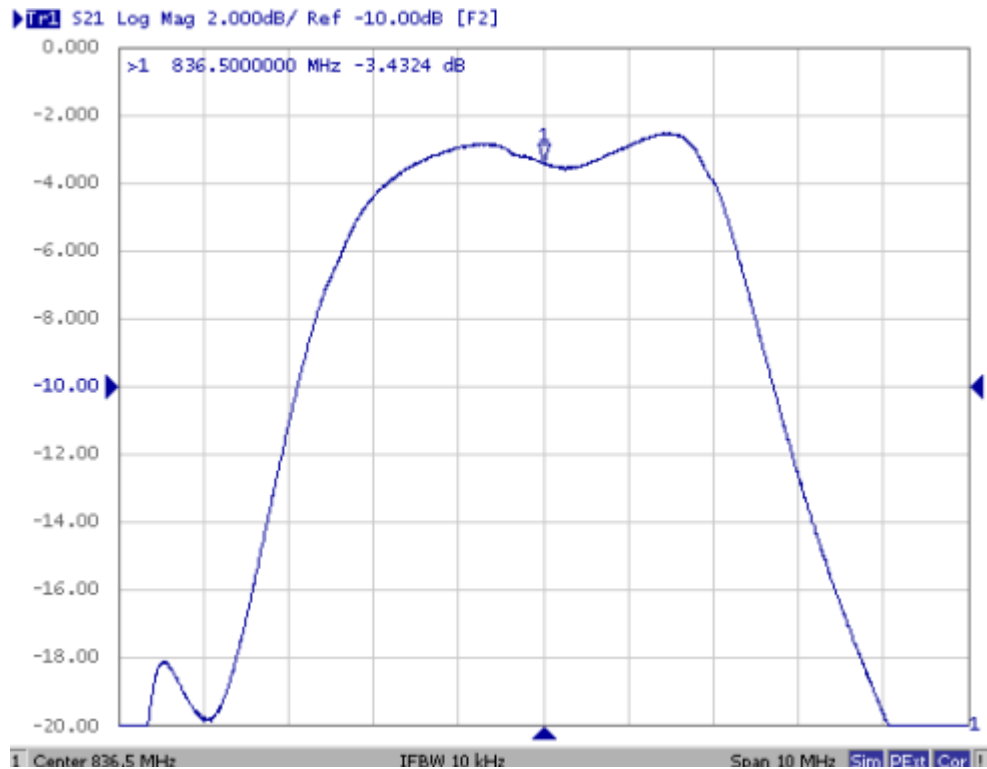
B. ELECTRICAL CHARACTERISTICS :

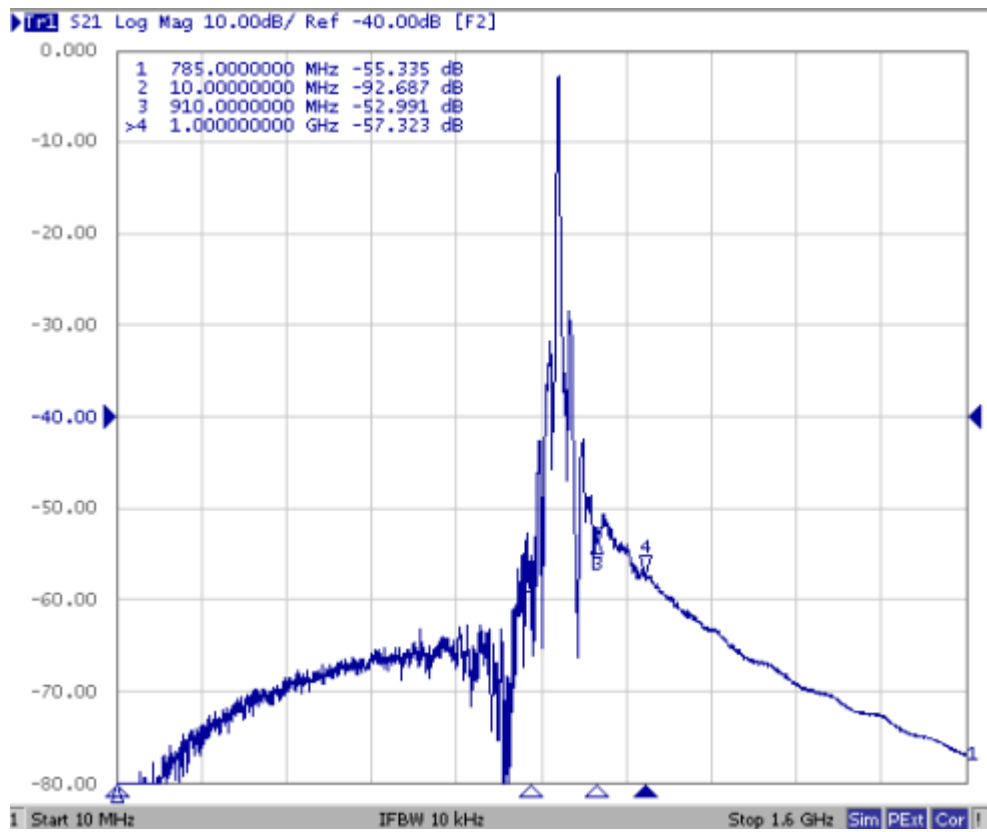
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	836.5	-
Minimum insertion loss IL(min)				
Exclude loss in matching elements *1)	dB	-	2.6	3.8
Incl. loss of matching elements(Q=91) *2)	dB	-	3.0	4.2
Passband (relative to IL _{min}) *1)				
835.50 ~ 837.50 MHz	dB	-	1.0	3.0
3dB bandwidth	MHz	-	4.5	-
Attenuation (relative to IL _{min}) *1)				
10.000-785.00 MHz	dB	40	51	-
785.00-810.00 MHz	dB	30	38	-
810.00-829.00 MHz	dB	20	29	-
843.00-850.00 MHz	dB	15	27	-
850.00-910.00 MHz	dB	18	25	-
910.00-1000.0 MHz	dB	40	48	-
Impedance at Fc, Input *1) Z _{in} = R _{in} //C _{in} Z _s	Ω	651 Ω//1.5pF		
Impedance at Fc, Output *1) Z _{out} = R _{out} //C _{out} Z _L	Ω	598 Ω//1.5pF		

*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.

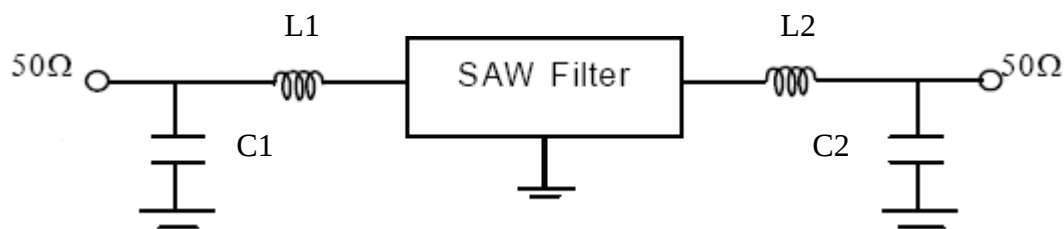
C. FREQUENCY CHARACTERISTICS :





D. MEASUREMENT CIRCUIT:

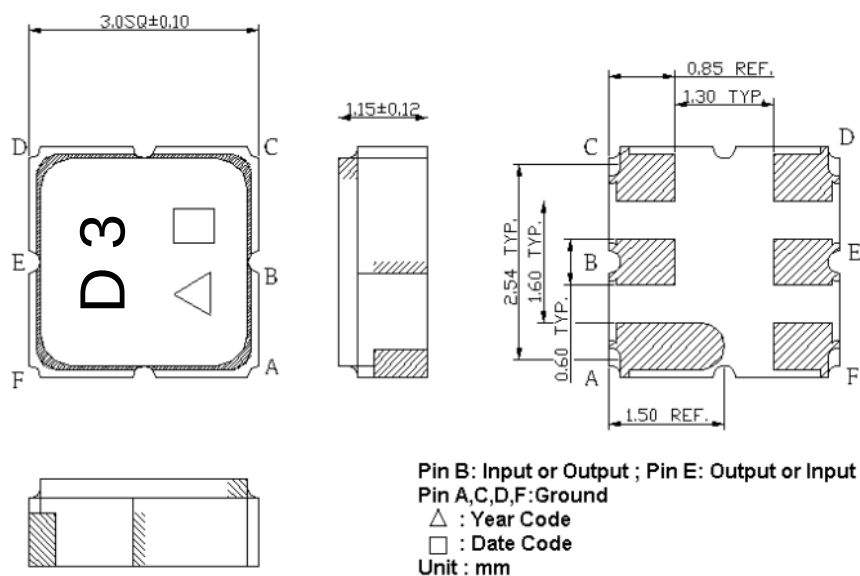
The matching circuit is ideal by simulation



L1 : 28nH , L2 : 27nH(Ideal value)

C1 : 4pF , C2 : 4pF(Ideal value)

E.OUTLINE DRAWING:

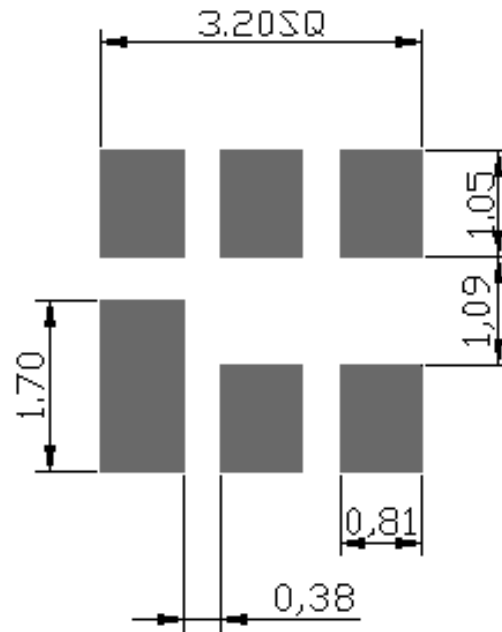


Product / Year Code:2010→0, 2011→1, ... 2019→9, 2020→0 ...

Date Code Table

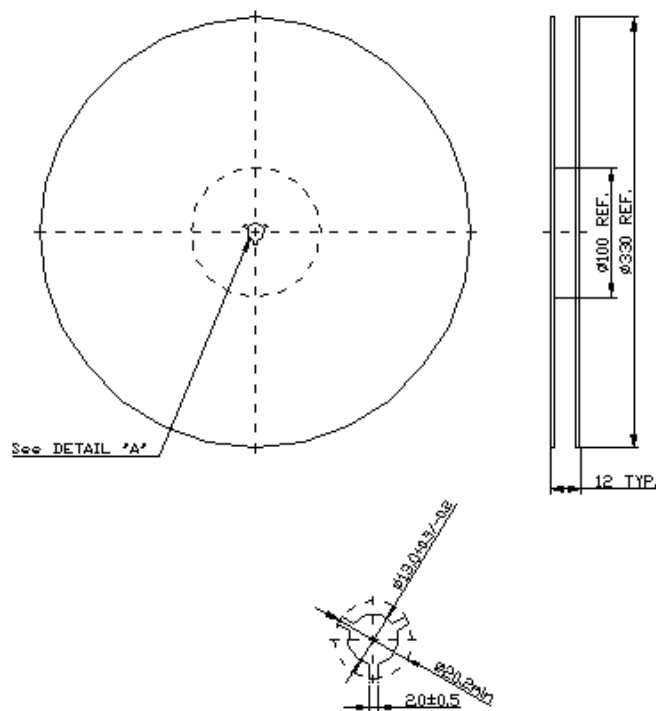
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB FOOTPRINT:

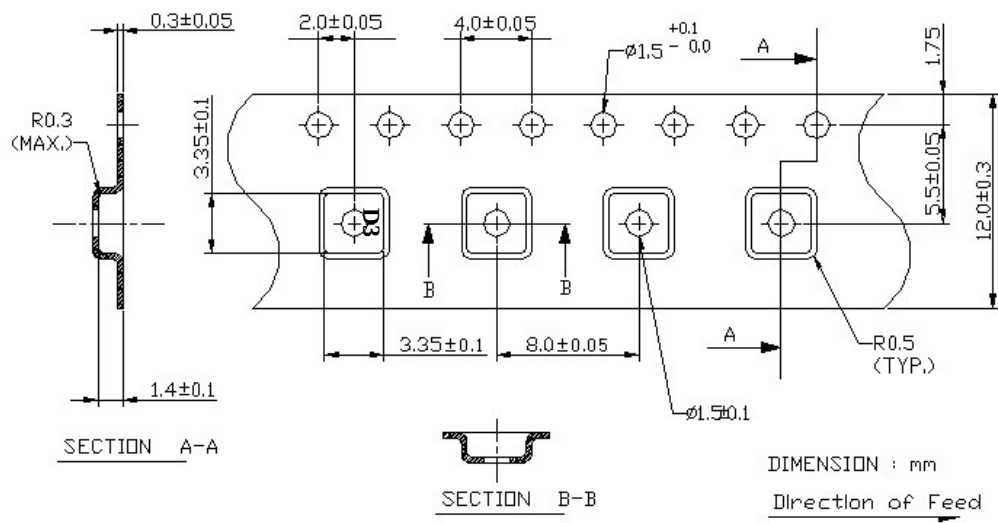


G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

