



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: 469.8MHz 0.3MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Parts No.:TA1685A

Customer Parts No.:_____

Company:_____
Division:_____
Approved by :_____
Date:_____

Checked by:_____Kazuma Lee 

Approval by:_____Bob Chau 

Date:_____07 / 02 / 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 469.8 MHz

MODEL NO.:TA1685A

Rev No.3

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 6V
3. Operating Temperature: -40°C to +85°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	-	469.8	-
1.5dB BW	KHz	300	530	-
3dB BW	KHz	-	710	950
Minimum insertion loss IL(min) Incl. loss of matching elements(Q=) *1)	dB	-	3.6	4.5
Passband (relative to IL _{min}) *1) 469.650 ~ 469.950 MHz	dB	-	0.6	3.0
Attenuation (relative to IL _{min}) *1)				
10.000 ~ 455.75 MHz	dB	44	46	-
455.75 ~ 462.75 MHz	dB	40	42	-
462.75 ~ 467.75 MHz	dB	25	30	-
467.75 ~ 468.75 MHz	dB	15	23	-
470.85 ~ 471.85 MHz	dB	13	18	-
471.85 ~ 480.85 MHz	dB	19	28	-
480.85 ~ 485.85 MHz	dB	42	48	-
485.85 ~ 2000.0 MHz	dB	40	50	-
Source Impedance	ohm		50	
Load Impedance	ohm		50	

*1) : 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 :

(1) Wide band Response:

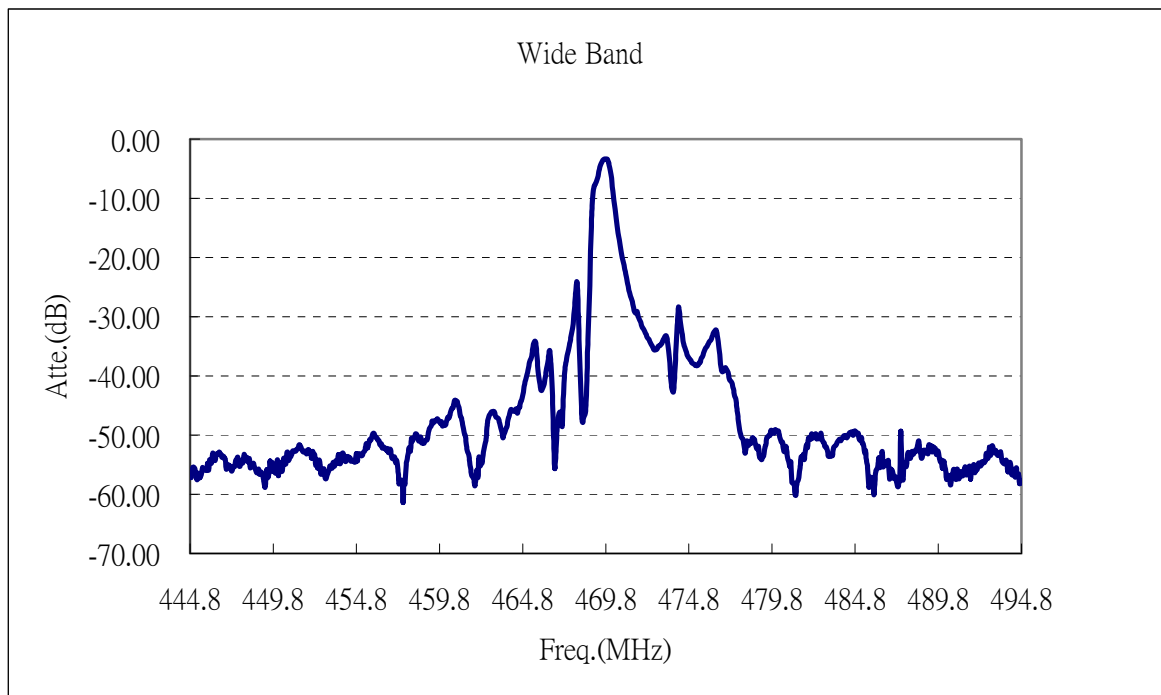


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

(2) Pass band Response Response:

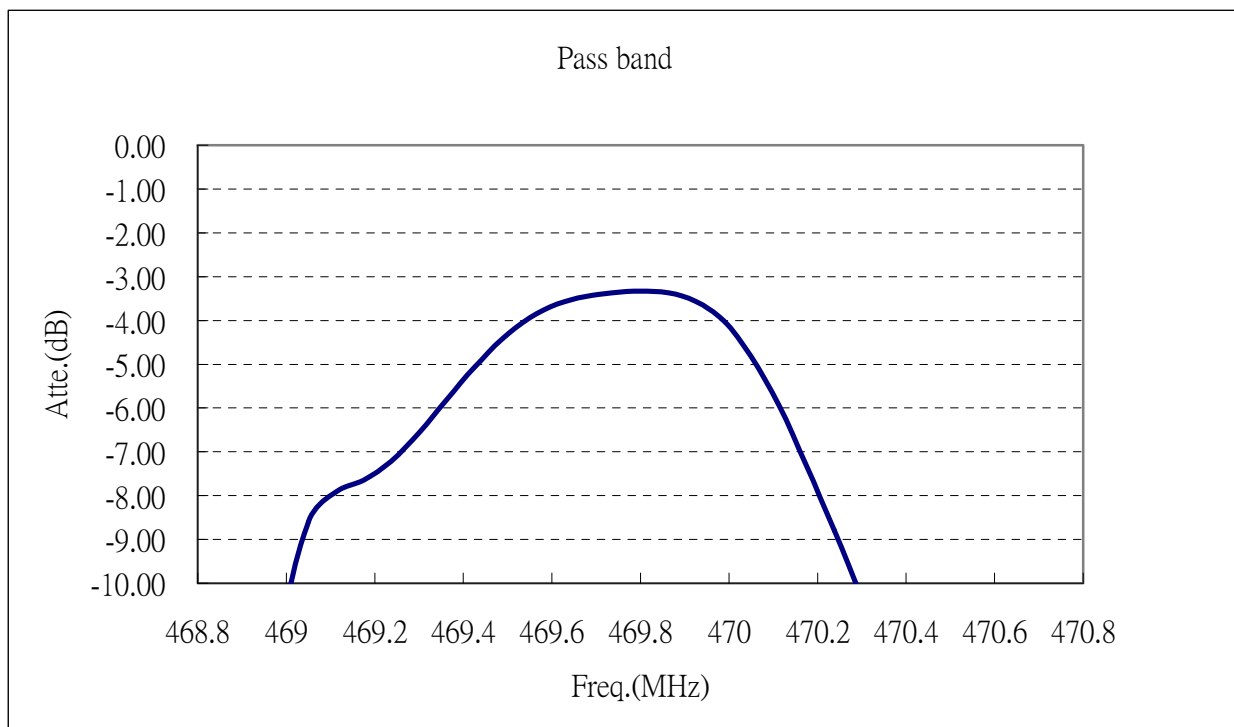
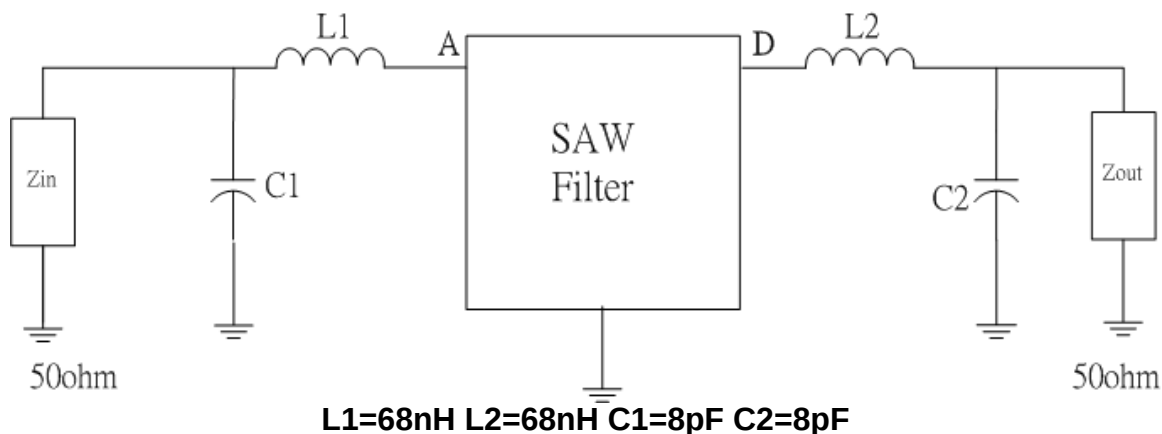


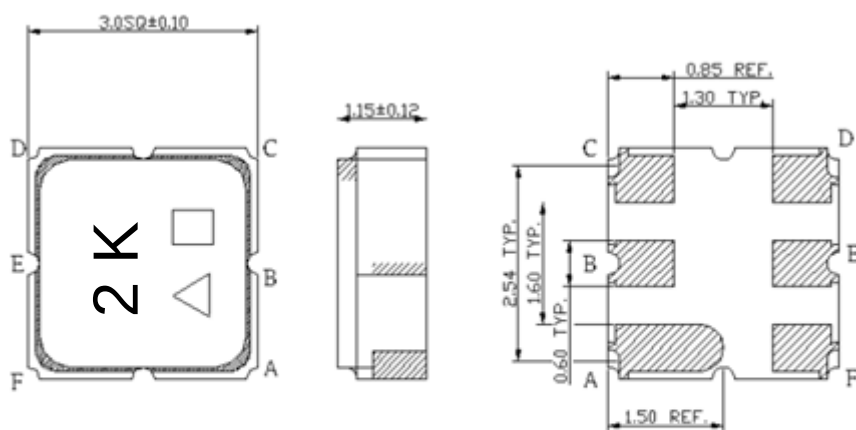
Fig2. Horizontal: 0.2MHz/Div Vertical: 1dB/Div

D. MEASUREMENT CIRCUIT:

The matching circuit is real by actual passive components.



E.OUTLINE DRAWING:



#A : Input (recommended) or Input ground

#B : Input ground (recommended) or Input

#D : Output (recommended) or Output ground

#E : Output ground (recommended) or Output

#C、F : Ground

△ : Product / Year Code

□ : Week Code

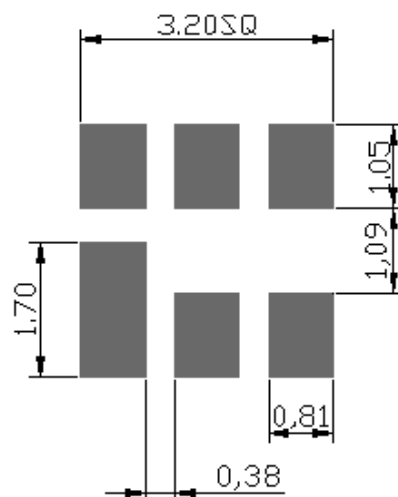
Unit : mm

Product / Year Code 2011→1, 2012→2, 2013→3, ... 2019→9, 2020→0, ...

Week Code

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

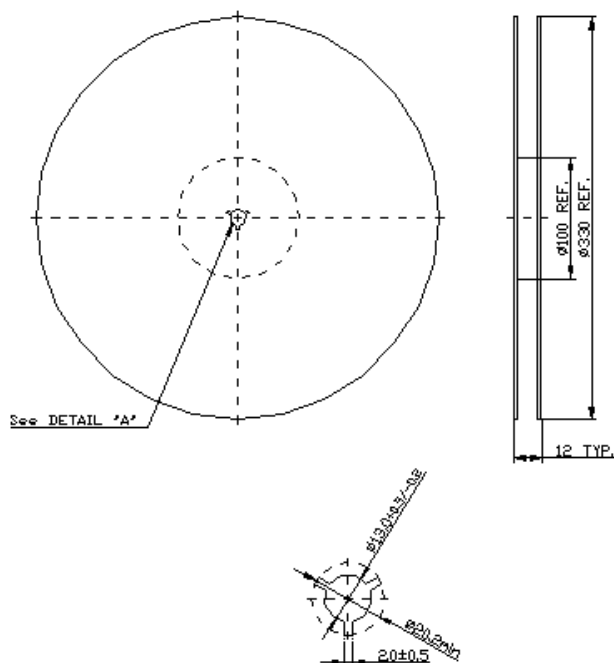
F. PCB Footprint:



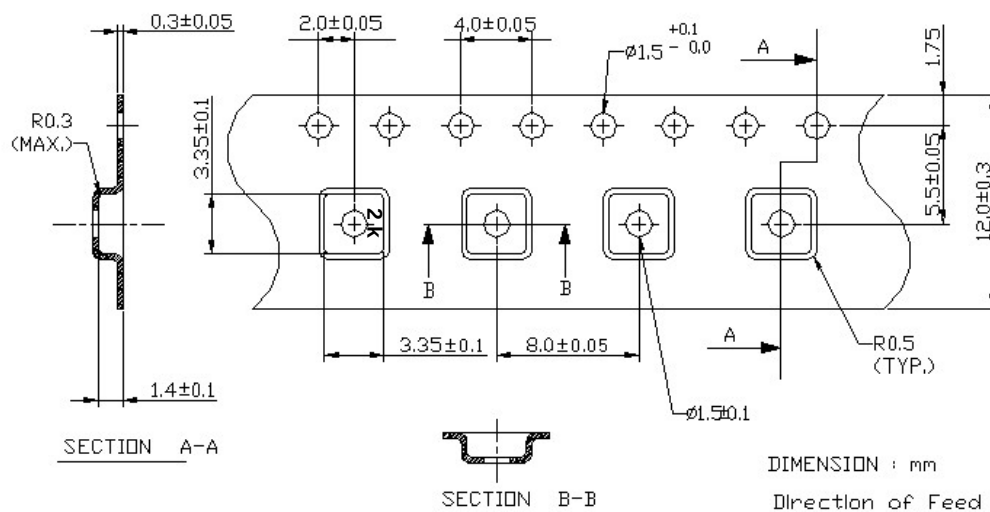
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

