



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: 434.17 MHz 0.78MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Parts No.: TA2129A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 04 / 24 / 2017

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 434.17 MHz

MODEL NO.:TA2129A

REV. NO.1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0V
3. Operating Temperature: -45°C to +125°C
4. Storage Temperature: -45°C to +125°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

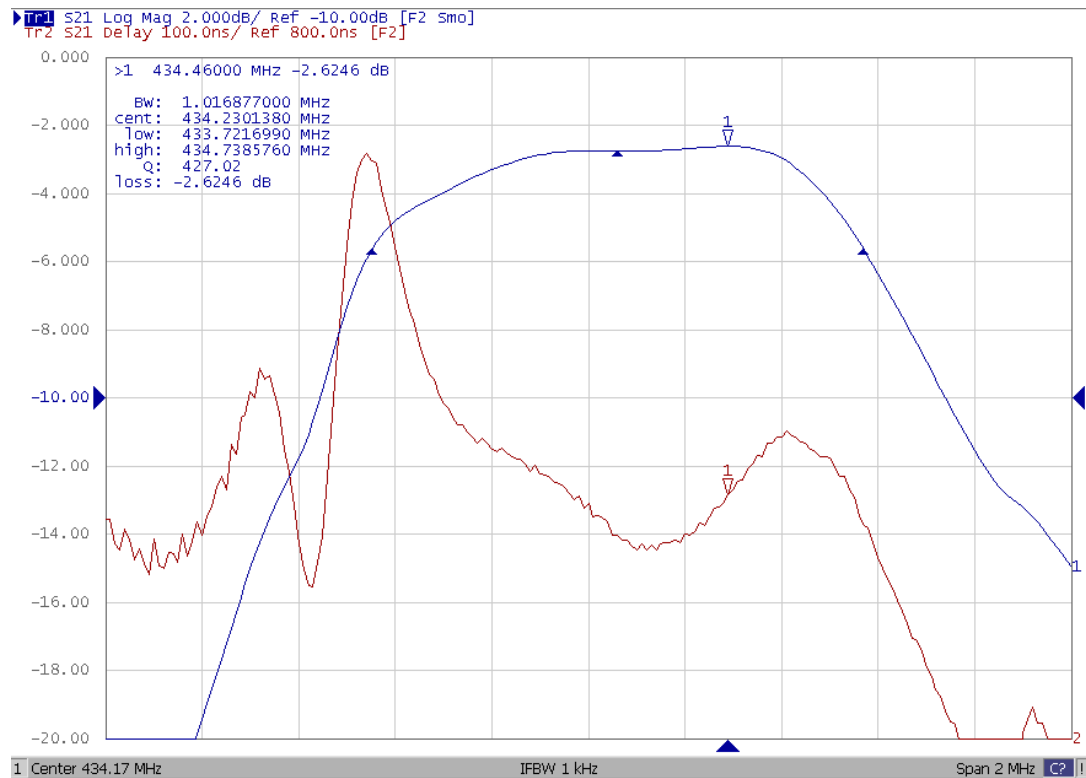
B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	434.17	-
3dB BW	MHz	-	1.0	-
Minimum insertion loss IL(min)				
Incl. loss of matching elements *1)	dB	-	2.6	3.50
Passband (relative to IL _{min}) *1)				
433.80 ~ 434.54 MHz	dB	-	1.9	2.5
433.76 ~ 434.54 MHz	dB	-	2.4	3.5
Attenuation (relative to IL _{min}) *1)				
10.00 ~ 360.00 MHz	dB	50	54	-
360.00 ~ 415.00 MHz	dB	43	46	-
415.00 ~ 425.00 MHz	dB	40	43	-
425.00 ~ 431.00 MHz	dB	29	33	-
431.00 ~ 432.50 MHz	dB	18	26	-
432.50 ~ 433.20 MHz	dB	9	22	-
435.10 ~ 435.50 MHz	dB	9	11	-
435.50 ~ 437.00 MHz	dB	12	15	-
437.00 ~ 445.00 MHz	dB	19	21	-
445.00 ~ 460.00 MHz	dB	33	37	-
460.00 ~ 550.00 MHz	dB	43	46	-
550.00 ~ 1000.00 MHz	dB	52	64	-
1000.00 ~ 2500.00 MHz	dB	50	64	-
Input Zin = Rin Cin	Ω pF	650 2.8		
Output Zout = Rout Cout	Ω pF	650 2.8		

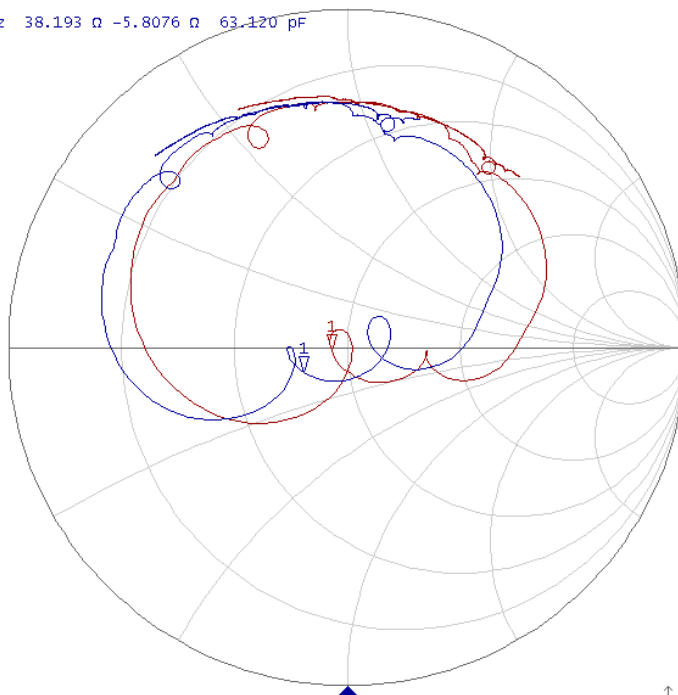
*1) : The matching circuit is real by actual passive components.
0805 Coilcraft CS series chip conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

C. FREQUENCY CHARACTERISTICS:



Tr1 S11 Smith (R+jX) Scale 1.000U [F2 Smo]
 Tr2 S22 Smith (R+jX) Scale 1.000U [F2]

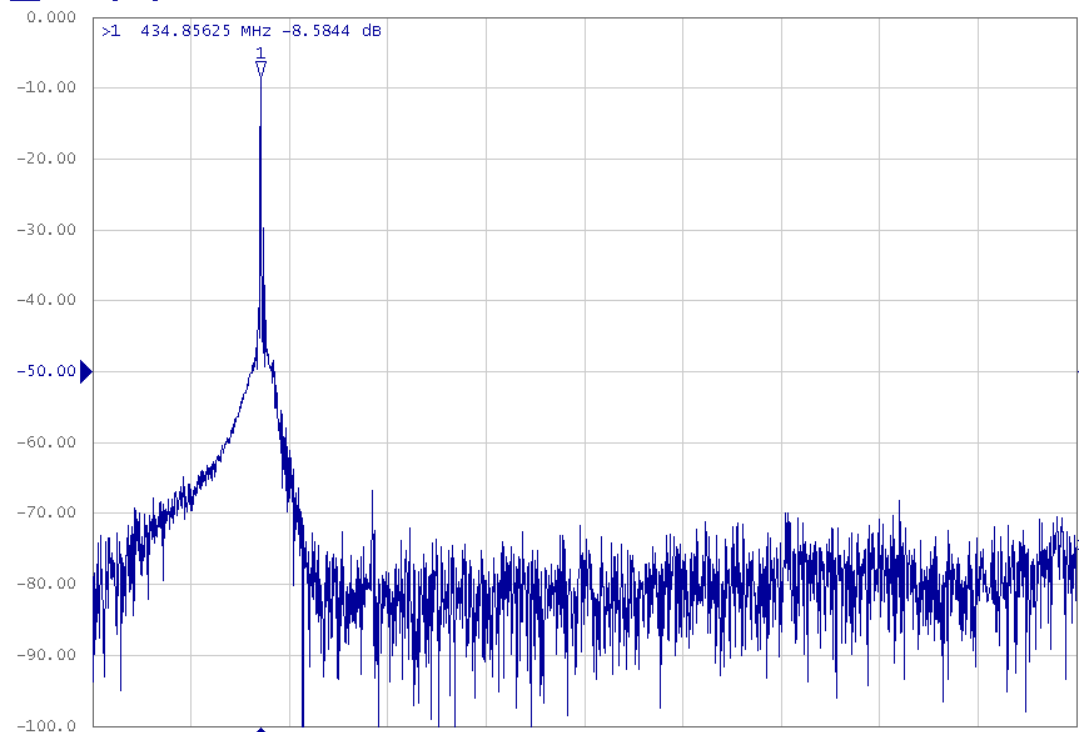
>1 434.17000 MHz 38.193 Ω -5.8076 Ω 63.1 $\pm$ 20 pF



1 Center 434.17 MHz IFBW 1 kHz Span 20 MHz C? I

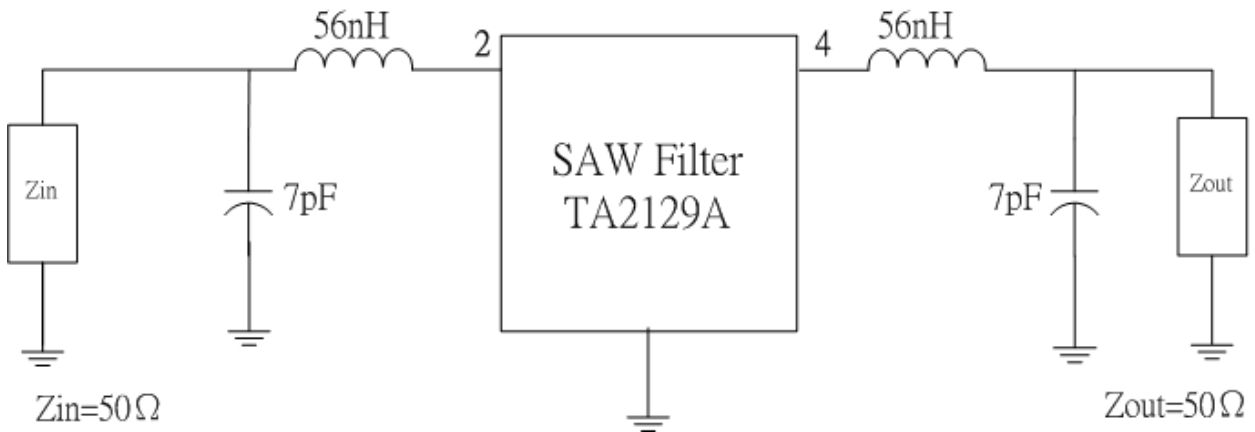
Tr1 S21 Log Mag 10.00dB/ Ref -50.00dB [F2 Smo]

>1 434.85625 MHz -8.5844 dB

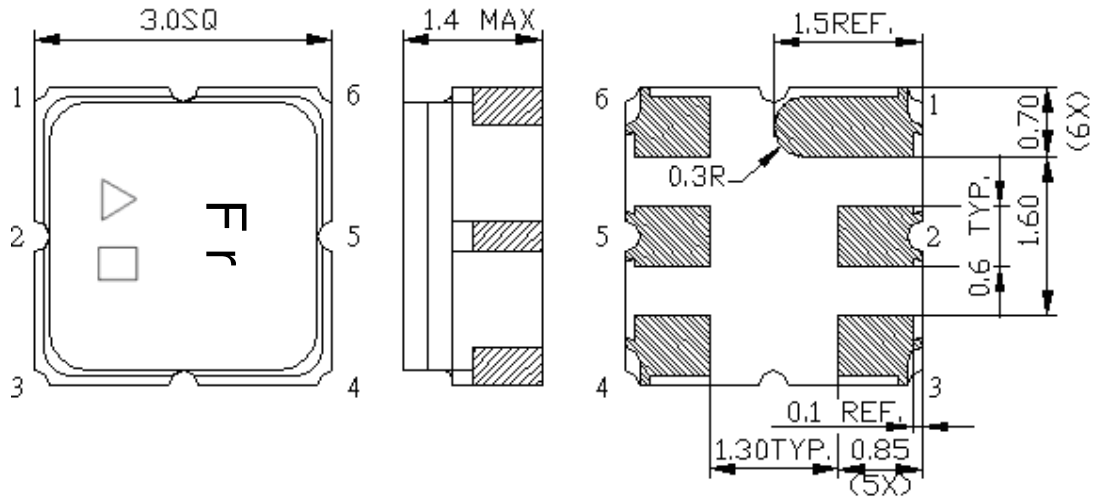


1 Start 10 MHz IFBW 1 kHz Stop 2.5 GHz C? I

D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



#1: Input Ground or Input

#2: Input or Input Ground

#4: Output Ground or Output

#5: Output or Output Ground

#3, 6: Ground

□: Week Code

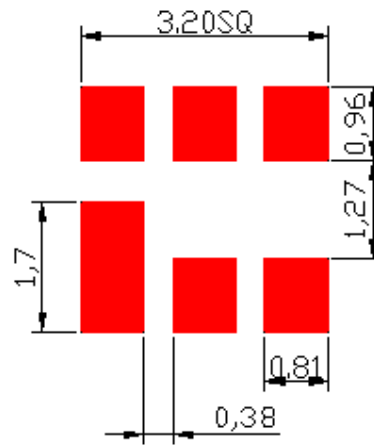
△: Product / Year Code 2010→0, 2011→1, 2012→2 ... 2020→0

Unit: mm

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

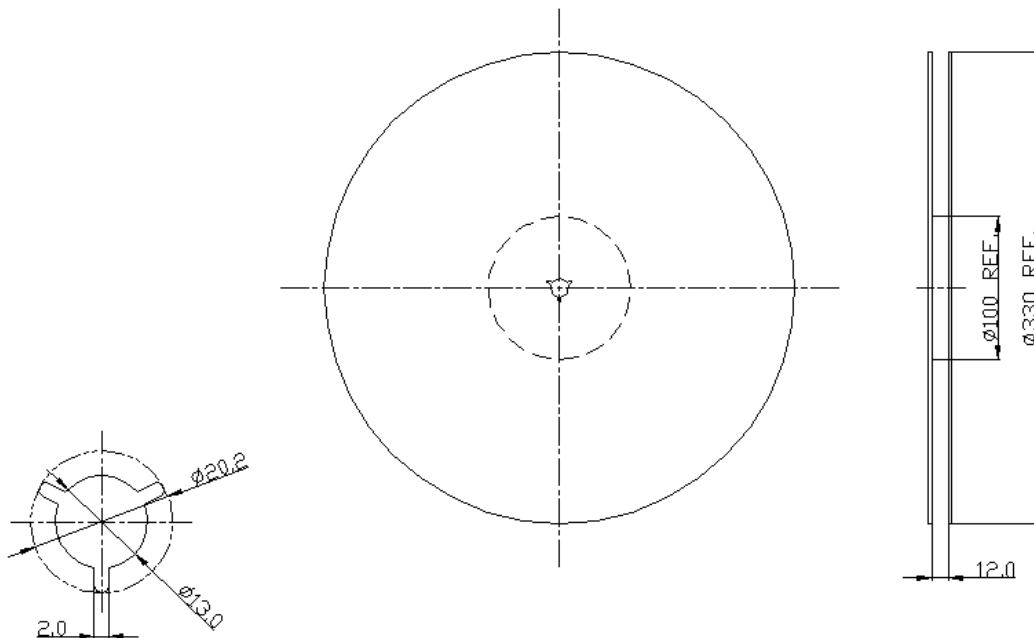
F. PCB FOOTPRINT:



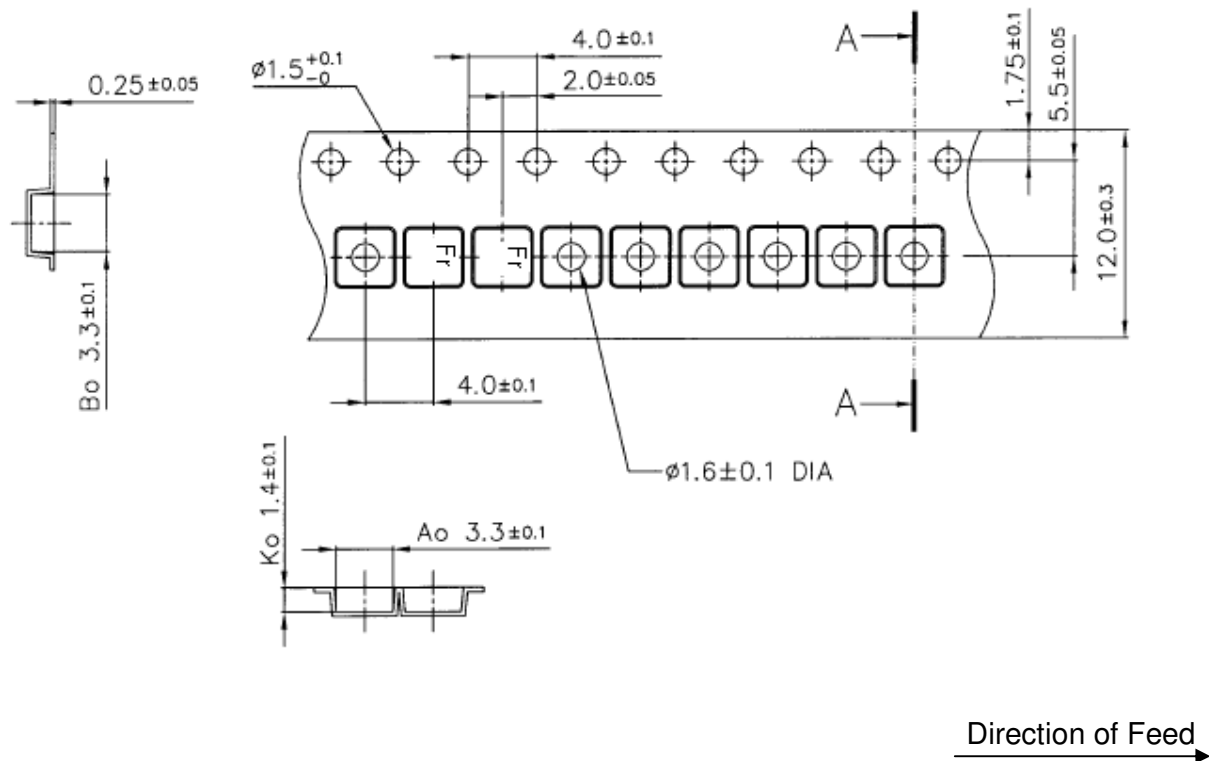
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.

