



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: 119.64 MHz 5kHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0777A

Customer Parts No.: _____

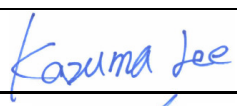
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 08/03/2016

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.
- 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 119.64MHz

MODEL NO.: TB0777A

REV. NO.:4

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage : 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

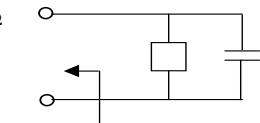
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center frequency, F_c	MHz	-	119.64	-	-
Minimum Insertion Loss, IL	dB	-	4	5.5	-
3 dB bandwidth (from F_c)	KHz	5	55	-	-
Group delay ripple in F_c±2.5KHz , GD	μs	-	5	10	-
Attenuation:(Reference level from min IL)					
F_c - 2.5 to F_c + 2.5 KHz	dB	-	1.2	3.0	-
F_c ± 80 to F_c ± 120 KHz	dB	13	23	-	-
F_c ± 120 to F_c ± 240 KHz	dB	43	50	-	-
F_c ± 240 to F_c ± 330 KHz	dB	45	55	-	-
F_c ± 330 to F_c ± 480 KHz	dB	45	55	-	-
F_c ± 480 to F_c ± 660 KHz	dB	45	55	-	-
Temperature coefficient of frequency TCf		-0.033 ppm/C²			

Source impedance

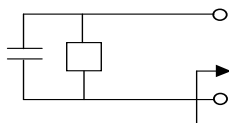
50Ω



$Z_{IN}=416.2\Omega // -4.65pF$

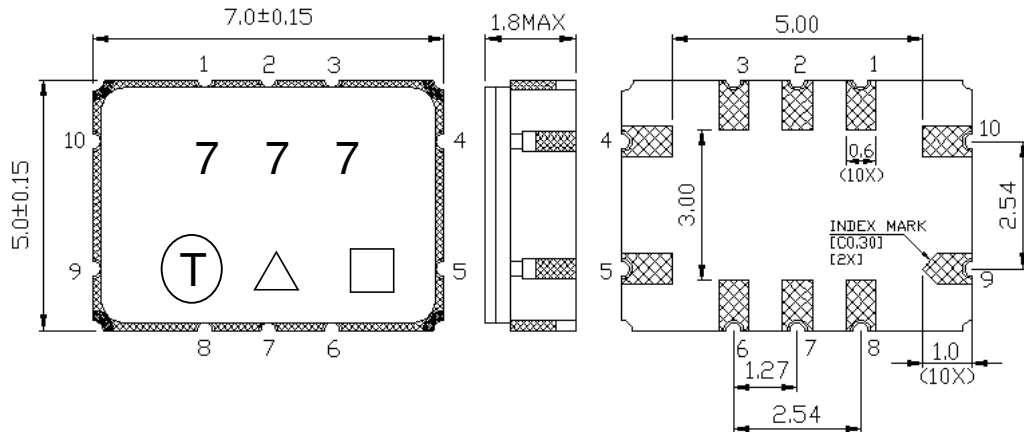
Load impedance

50Ω



$Z_{OUT}=416.2\Omega // -4.65pF$

C. OUTLINE DRAWING:



#9 : Input

#10: Balance Input or Input Ground

#4 : Output

#5 : Balance Output or Output Ground

#1, 2, 3, 6, 7, 8: Ground

□: Week Code

Unit: mm

△ : Product / Year Code

Product / Year Code

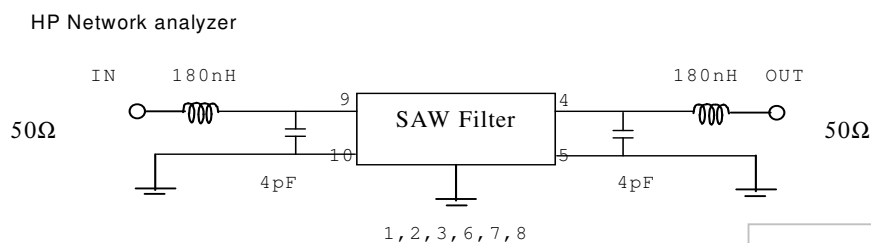
Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	<u>B</u>	<u>b</u>

Week Code Table

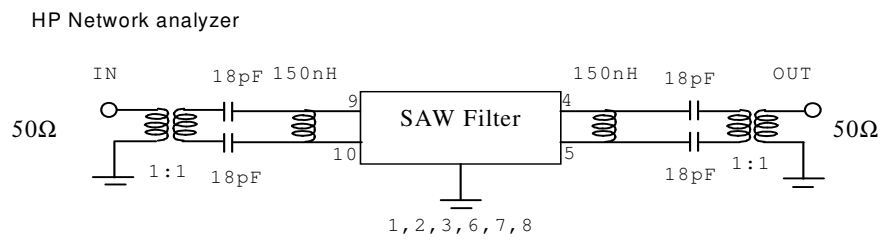
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

D. MEASUREMENT CIRCUIT:

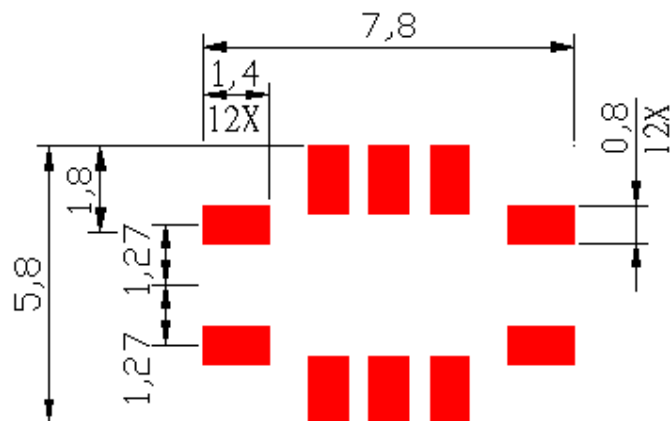
50 Ohm Test circuit 1 (single-ended / single-ended)



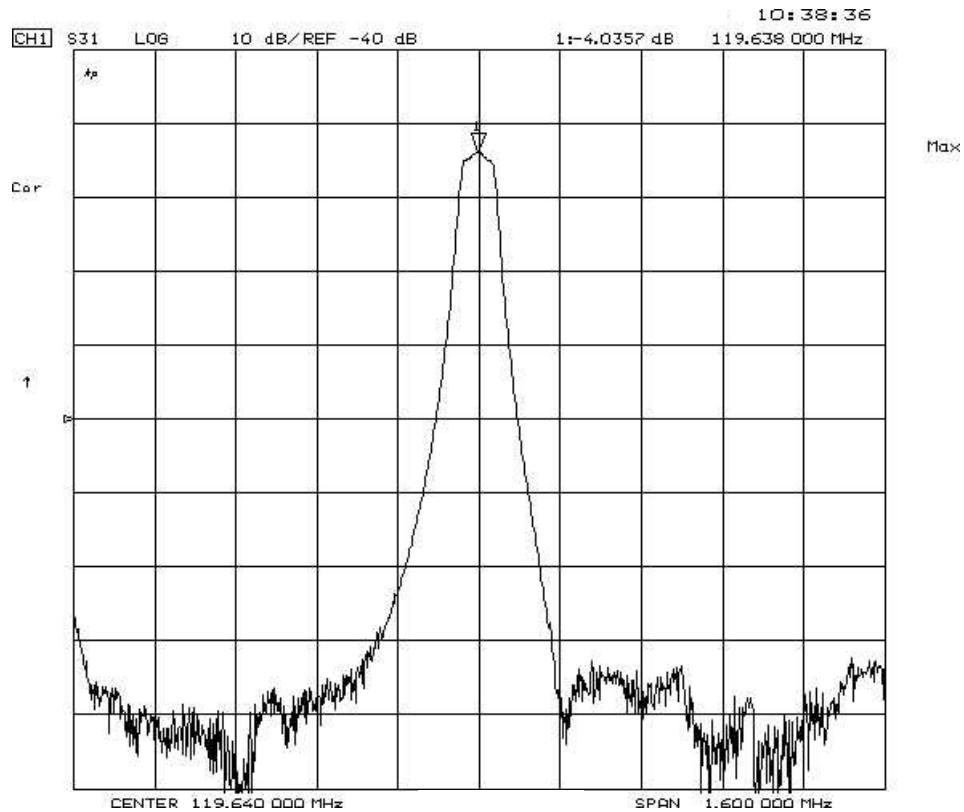
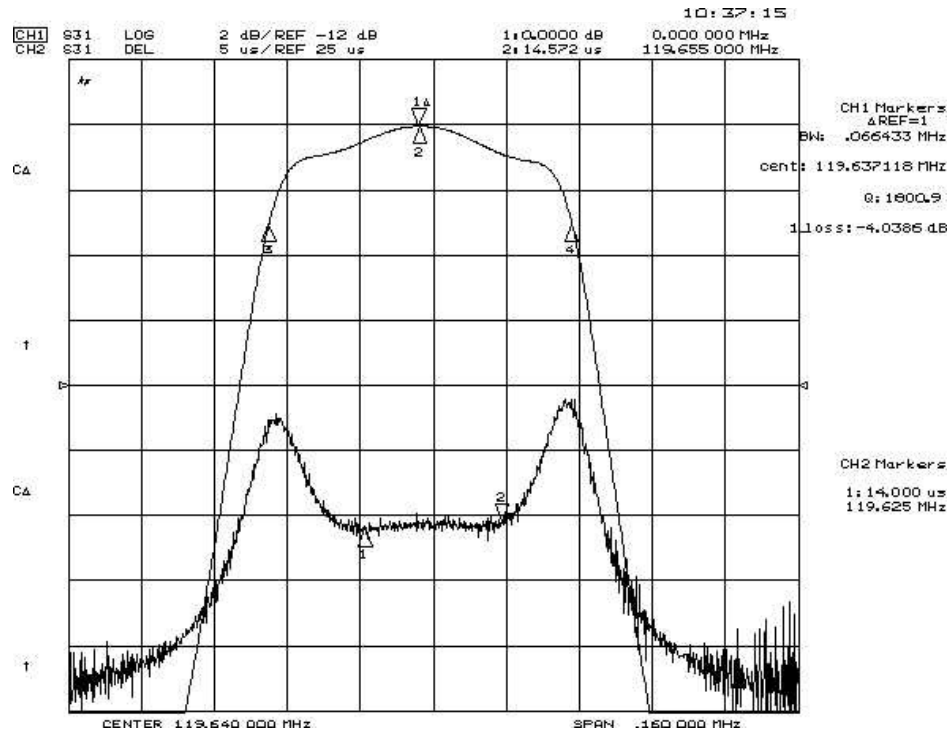
50 Ohm Test circuit 2 (balance / balance)



E. PCB FOOTPRINT:



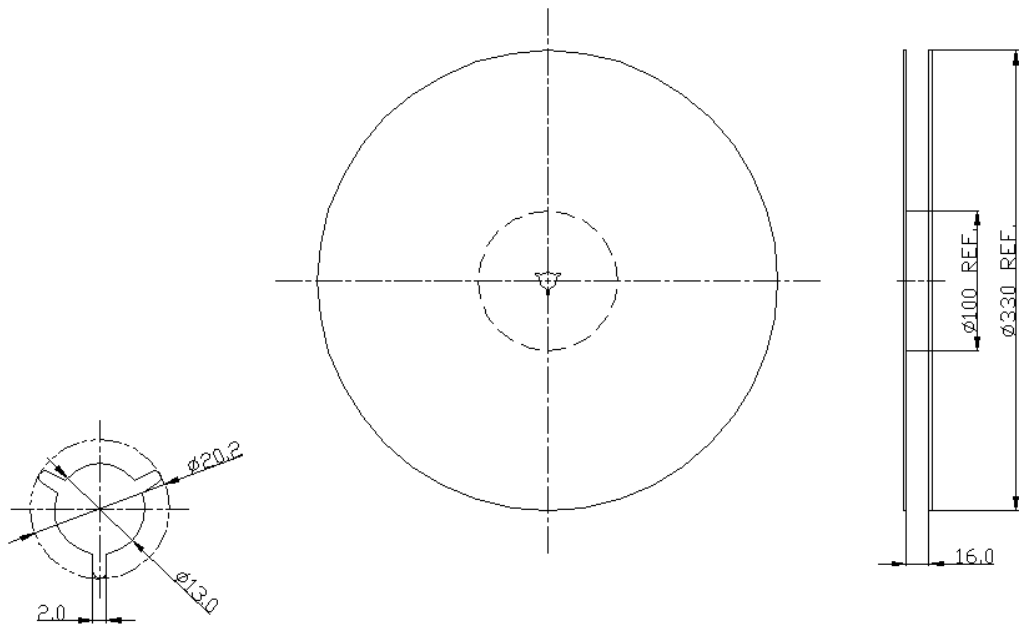
F. FREQUENCY CHARACTERISTICS:



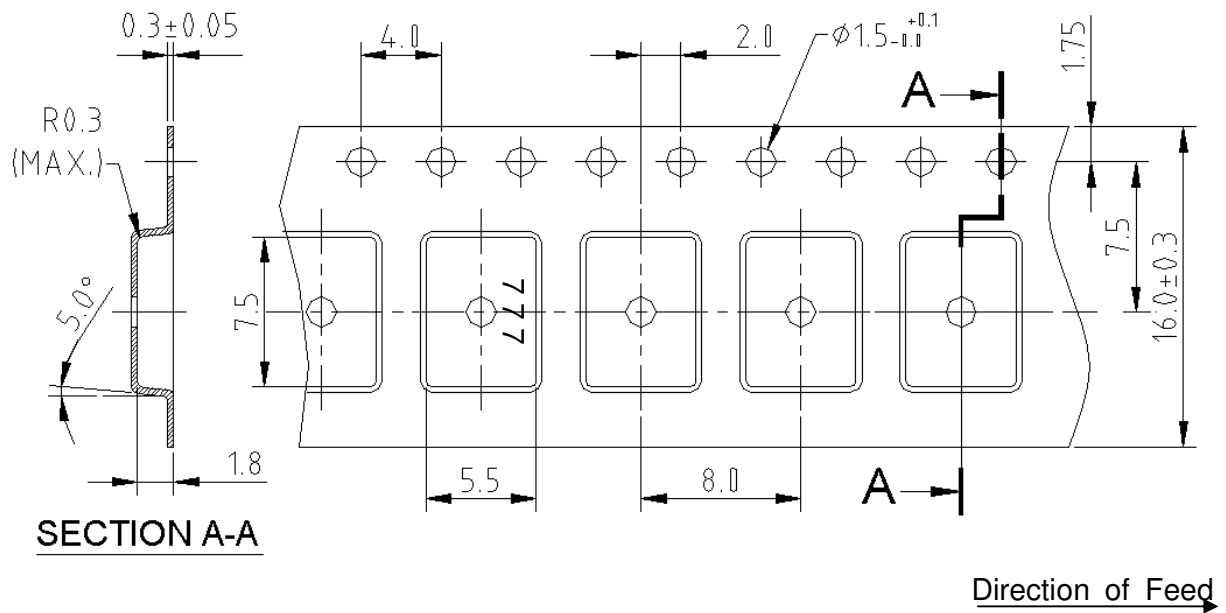
G. PACKING:

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

