



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 170 MHz 24.0MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1284A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 10 / 25 / 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 170MHz 24.0MHz BW (SMD 7.0×5.0 mm)

MODEL NO.: TB1284A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30℃ to 85℃
2. Storage temperature range: -40℃ to 85℃
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V
5. Moisture Sensitivity Level: Level 1(MSL1)

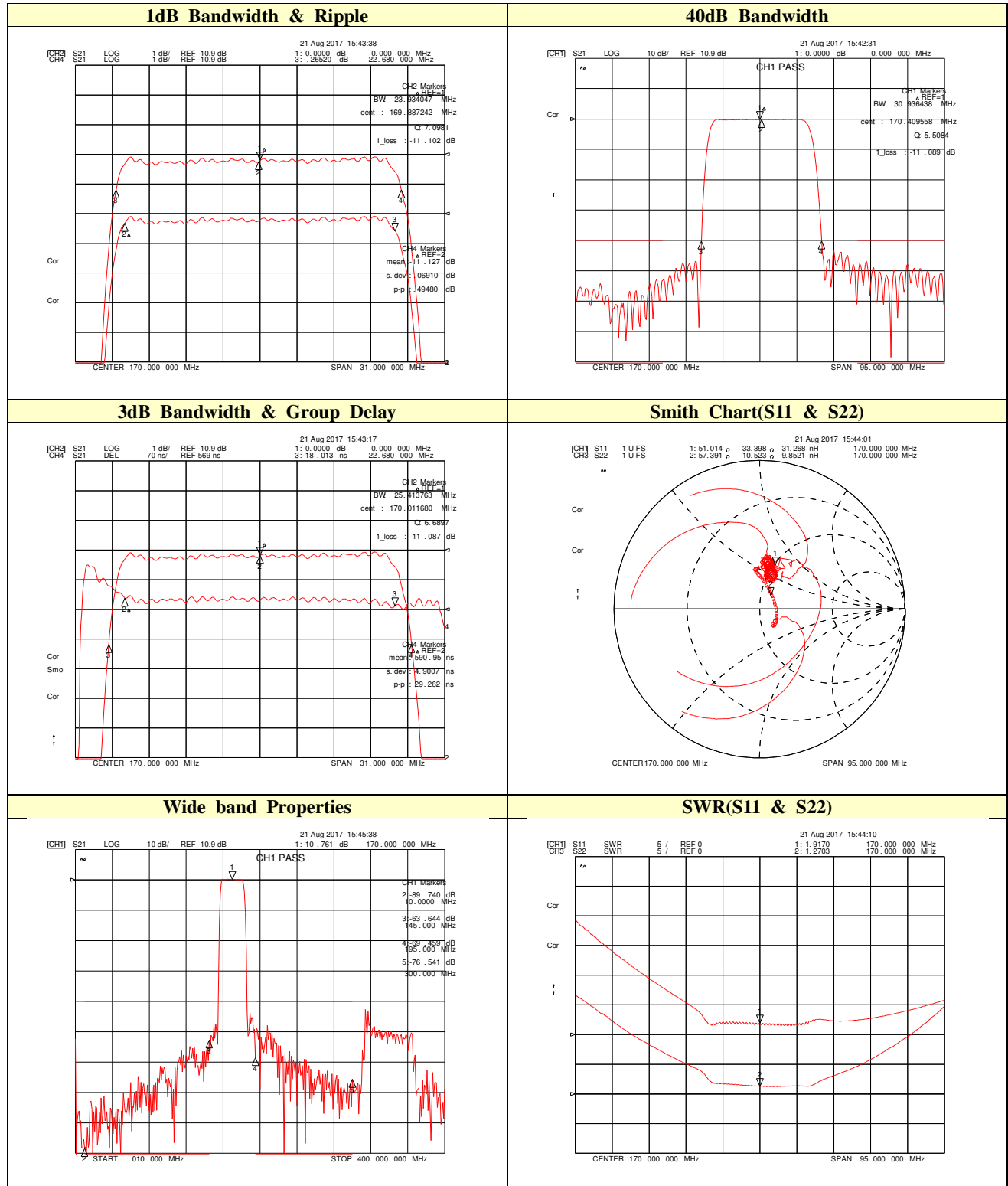
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

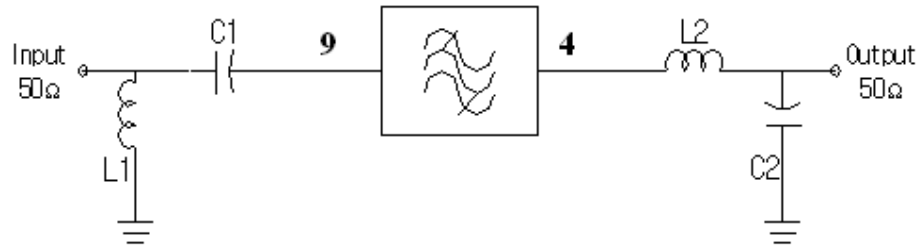
B. CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	170	-
Insertion Loss, IL	dB	-	11.5	13.5
1dB Bandwidth	MHz	23.50	23.95	-
40dB Bandwidth	MHz	-	31.0	32.0
Passband Ripple F _c +/- 10.5MHz	dB	-	0.5	1.0
Absolute group Delay	us	-	0.59	-
Group Delay variation F _c +/- 10.5MHz	ns	-	35	70
Attenuation (Reference level from minimum Insertion loss)				
10MHz~145MHz	dB	40	45	-
195MHz~300MHz	dB	40	45	-
Temperature Coefficient	ppm/℃	-	-86	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS:

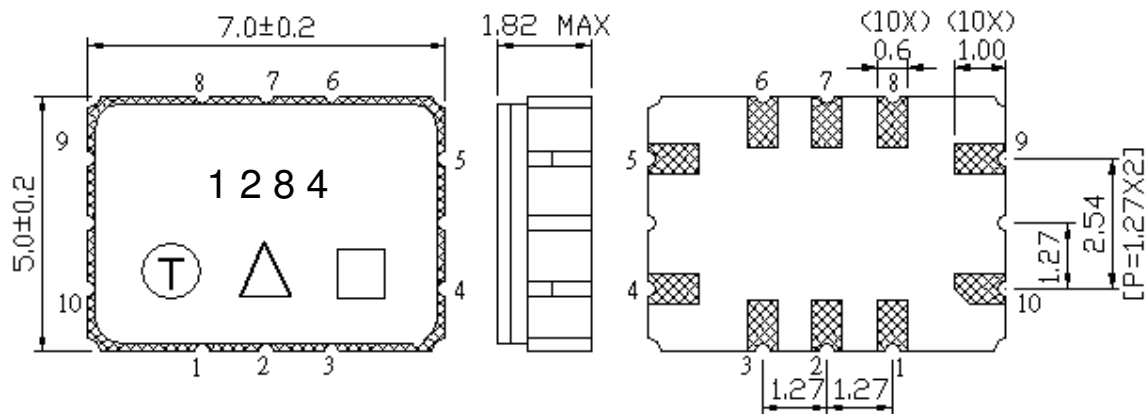


D. MATCHING CIRCUIT:



$$L1 = 18\text{nH}, C1 = 470\text{pF}, L2 = 33\text{nH}, C2 = 39\text{pF}$$

E. OUTLINE DRAWING:



Pin 9 –RF Input

Pin 10 –RF Input Return

Pin 4 –RF Output

Pin 5 –RF Output Return

Pin 1, 2, 3, 6, 7, 8 - Ground

□ : Week Code

Unit : mm

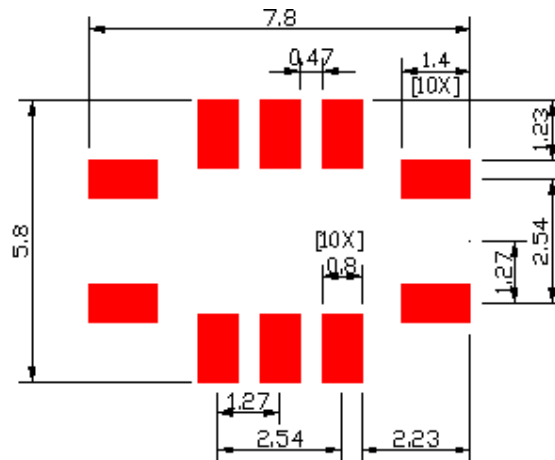
△ : Product / Year Code

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

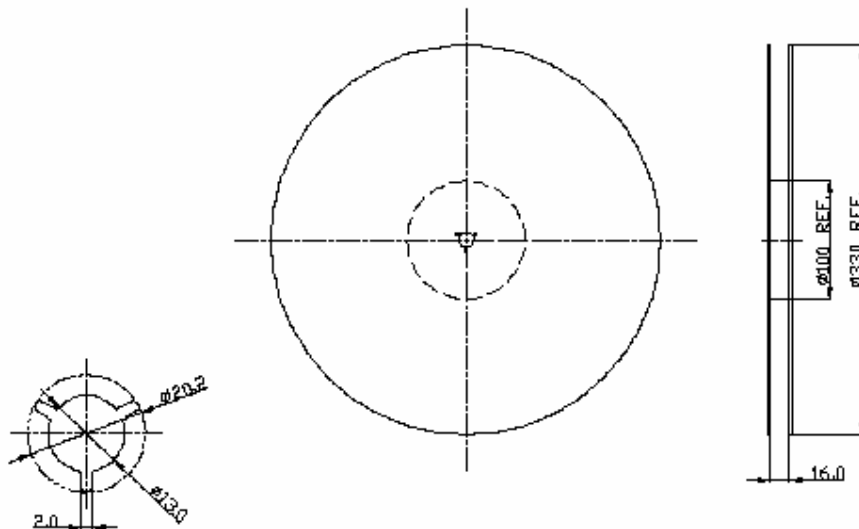
F. PCB FOOTPRINT:



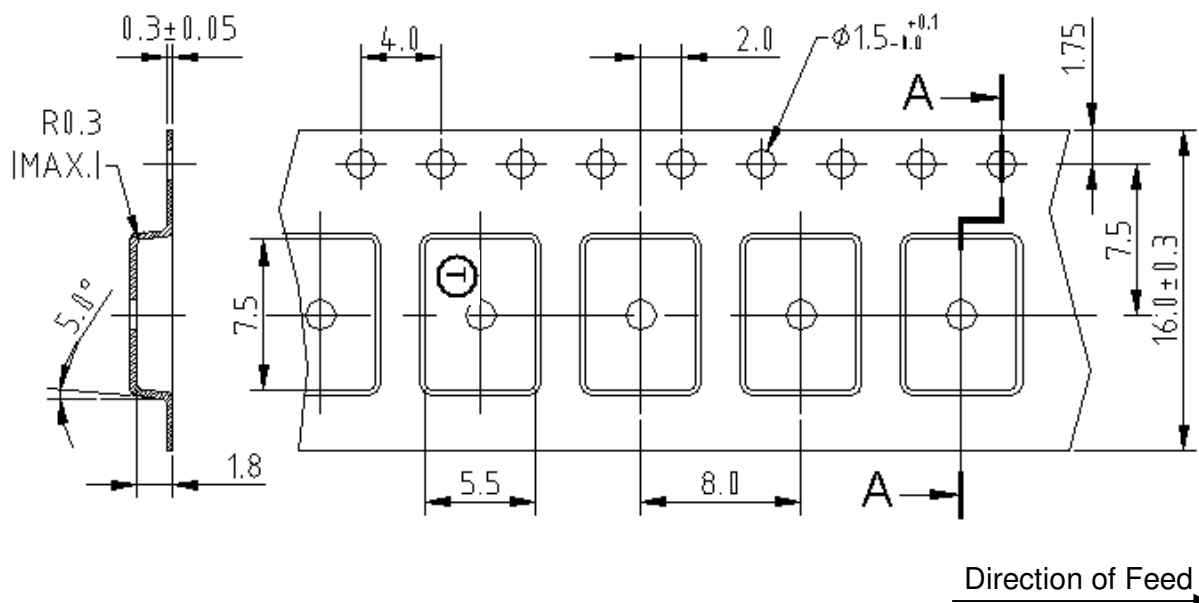
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity and FR-75M03 for MSL)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} \pm 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

