



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: 36.86MHz 9.5MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB1289A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 03 / 24 / 2018

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.



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

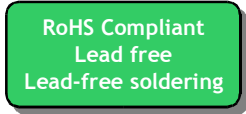
SAW Filter 36.86MHz 9.5MHz BW (SMD 13.3x6.5 mm)

MODEL NO.: TB1289A

REV. NO.1

A. MAXIMUM RATING:

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



Electrostatic Sensitive Device

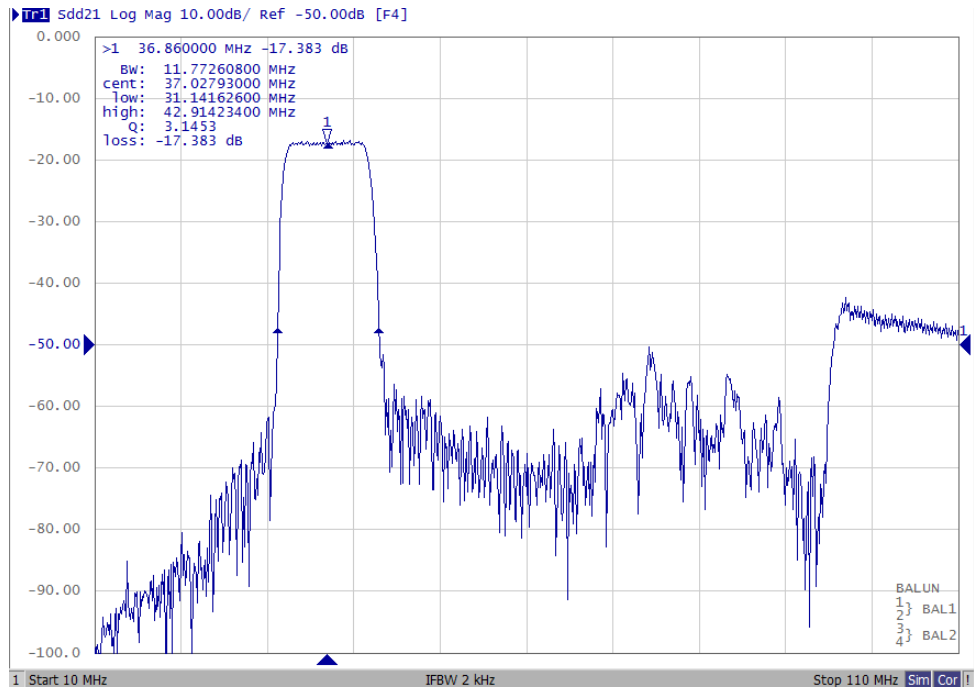
B. CHARACTERISTICS:

Ambient Temperature: 25°C

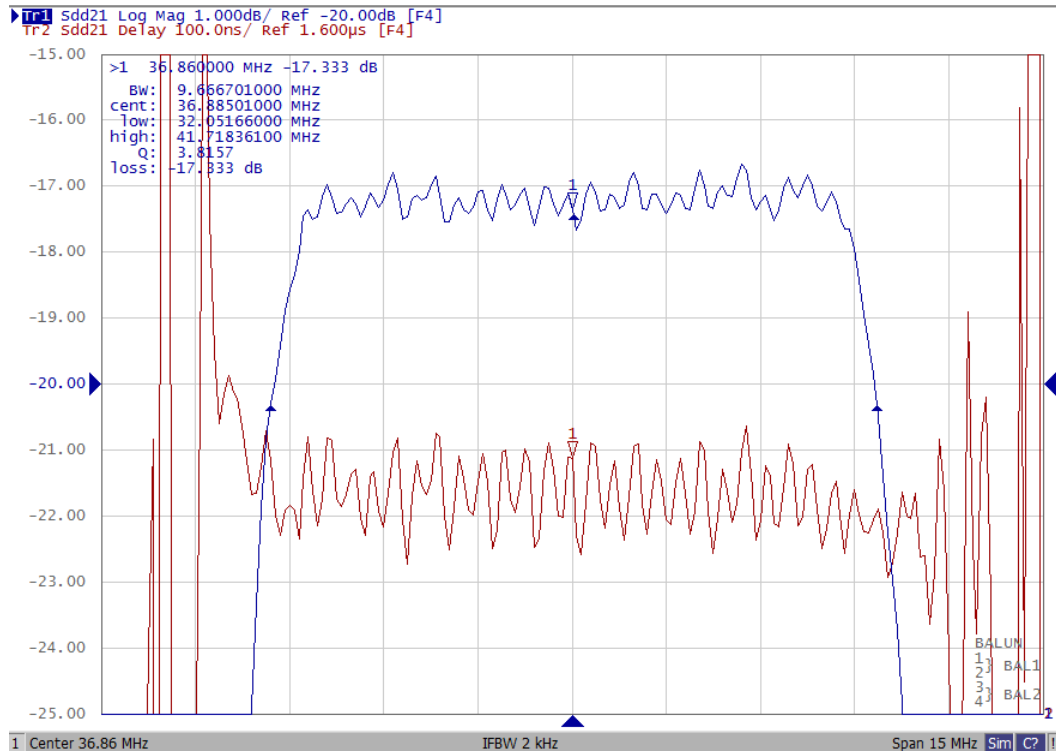
Item	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	-	36.86	-
Insertion Loss, IL	dB	-	17.0	20.0
1dB bandwidth	MHz	-	9.0	-
3dB bandwidth	MHz	9.5	9.7	-
30dB bandwidth	MHz	-	11.7	13.0
Passband Ripple F _c +/- 4MHz	dB	-	0.8	1.6
Absolute Group Delay at F _c	us	-	1.45	-
Group Delay Variation F _c +/- 4MHz	ns	-	200	300
Attenuation (Reference level from minimum Insertion loss)				
DC~28MHz	dB	35	50	-
28~30.46MHz	dB	30	45	-
30.46~30.76MHz	dB	21	43	-
43.46~45MHz	dB	15	35	-
45~50MHz	dB	35	43	-
50~110MHz	dB	15	25	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance(Differential)	Ohm	-	500	-
Load Impedance(Differential)	Ohm	-	1000	-

C. FREQUENCY CHARACTERISTICS:

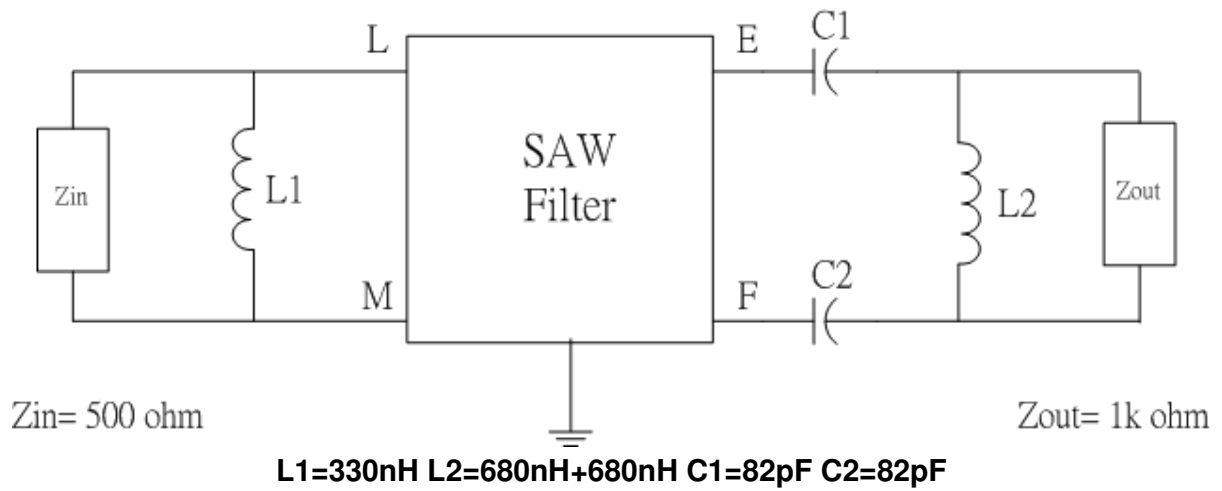
(1) Wide Band Response:



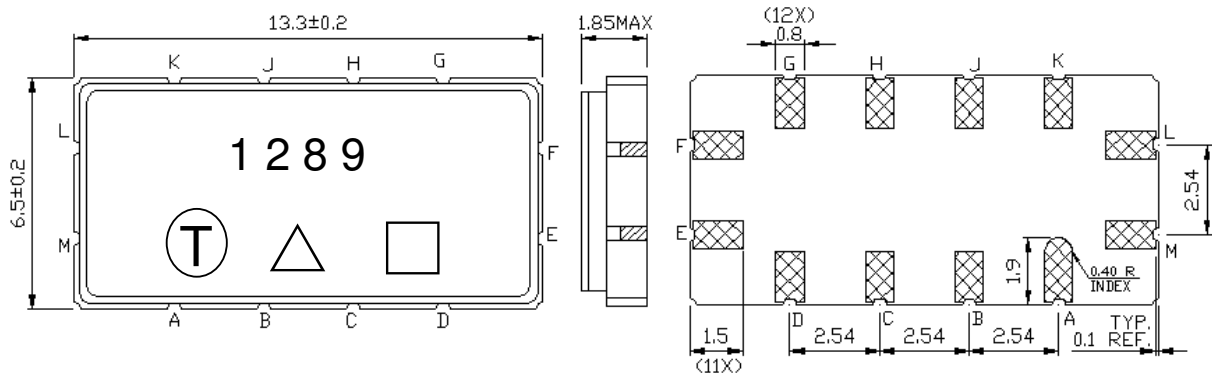
(2) Pass Band Response and Group Time Delay response:



D. MATCHING CIRCUIT:



E. OUTLINE DRAWING:



#L: Balanced Input+

#M: Balanced Input-

#E: Balanced Output+

#F: Balanced Output-

Others: Ground

□: Week Code

Unit: mm

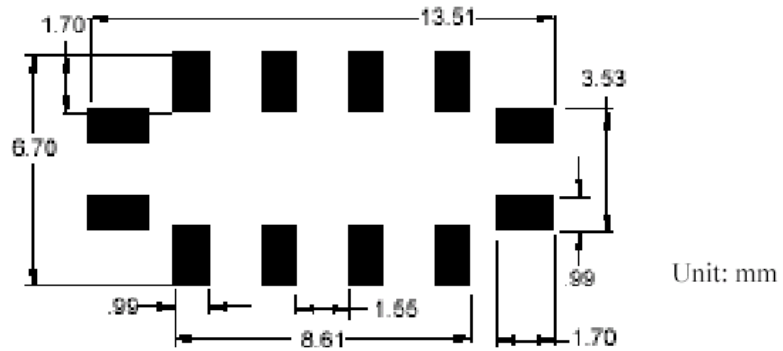
△: Product / Year Code

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

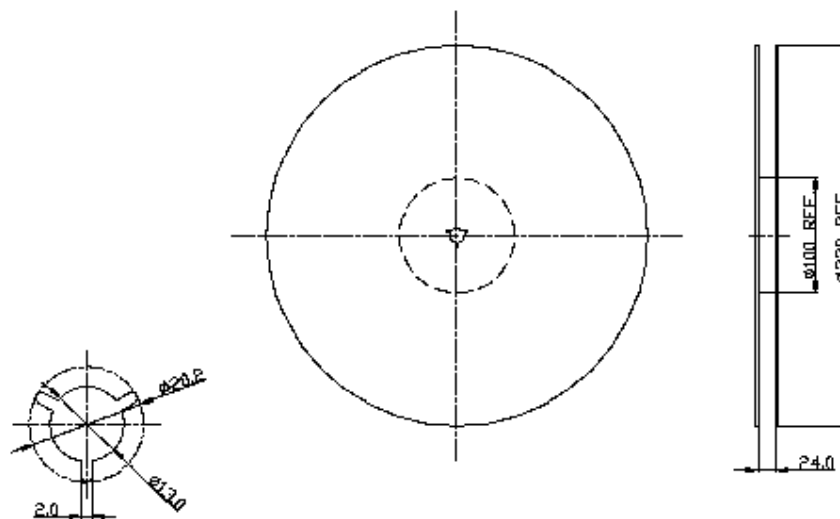
F. PCB FOOTPRINT:



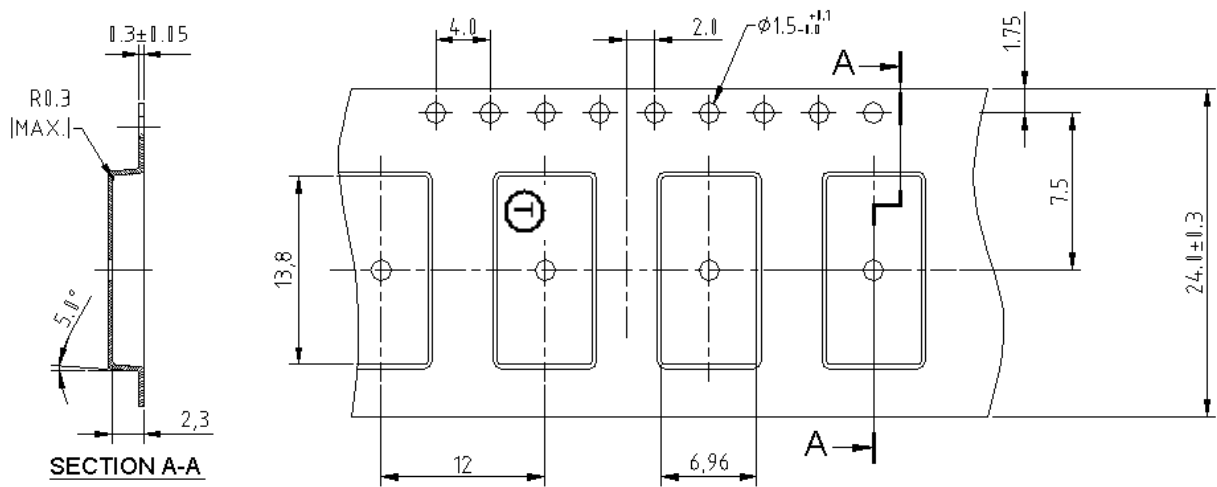
G. PACKING:

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 $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

