



# TAI-SAW TECHNOLOGY CO., LTD.

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## Product Specifications Approval Sheet

Product Description: 1175MHz 320MHzBW SMD 3.8x3.8 mm SAW RF Filter

TST Parts No.: TB1383AA3612

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Kazuma Lee *Kazuma Lee*

Approval by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 07 / 21 / 2020

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.

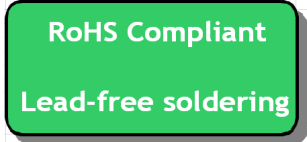
## SAW Filter 1175 MHz

MODEL NO.: TB1383AA3612

REV. NO.: 1.0

### A. MAXIMUM RATING:

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



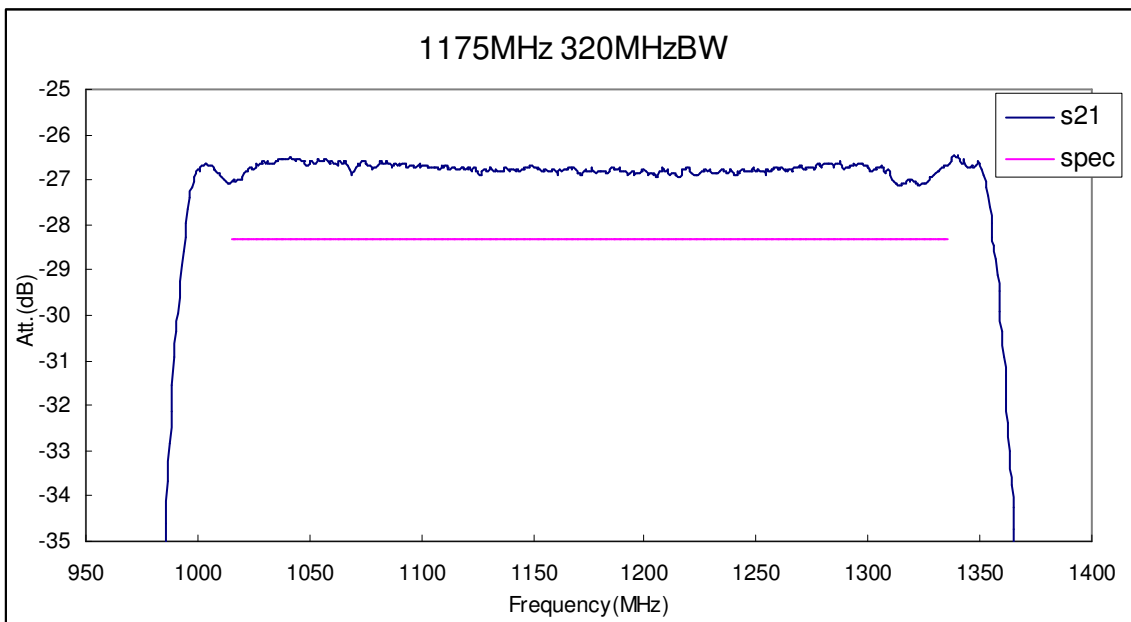
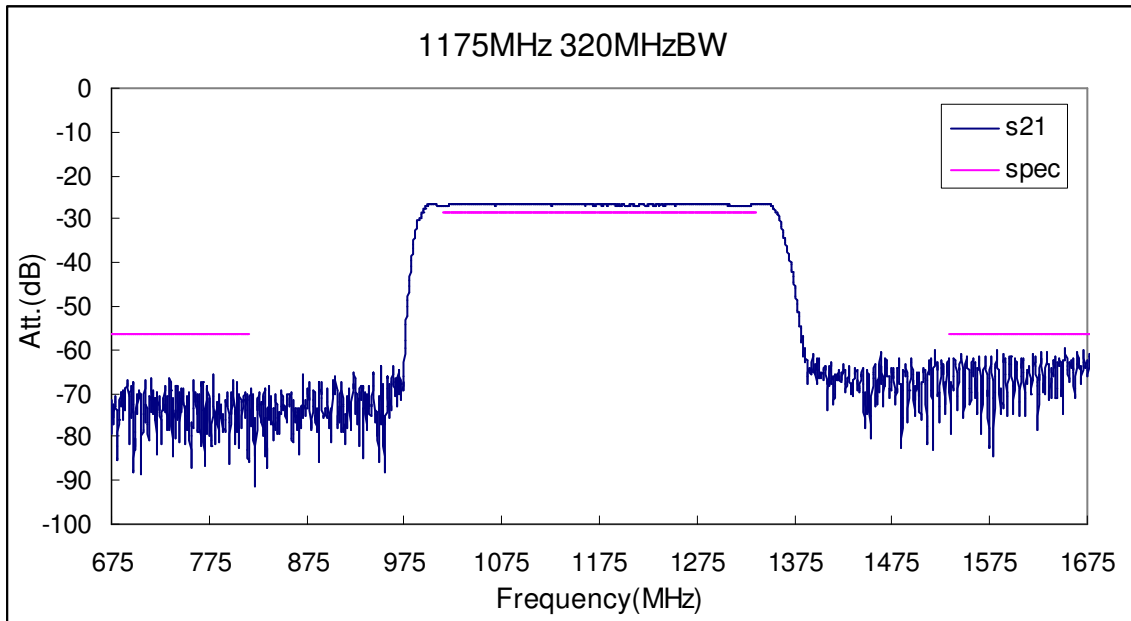
Electrostatic Sensitive Device

### B. ELECTRICAL CHARACTERISTICS:

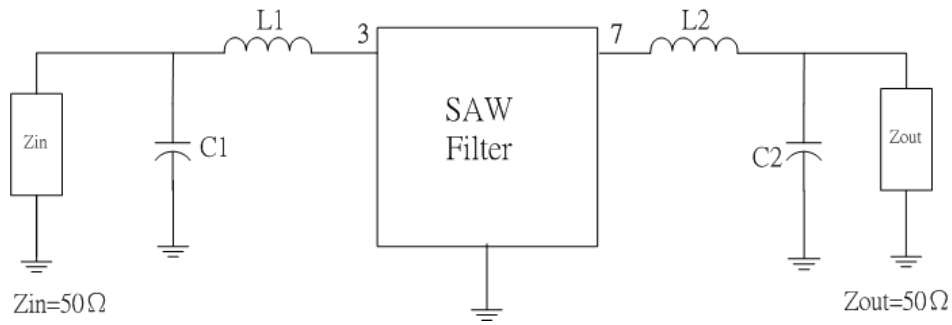
Ambient Temperature: 25°C

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	1175	-
Insertion Loss, ILmin	dB	-	29.5	31.5
1.5dB bandwidth	MHz	320	354	-
Passband Ripple Fc+/- 160MHz	dB	-	1.0	1.8
Attenuation: (Reference level from ILmin)				
575MHz~815MHz	dB	30	40	-
1535MHz~1775MHz	dB	30	40	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

### C. FREQUENCY CHARACTERISTICS:

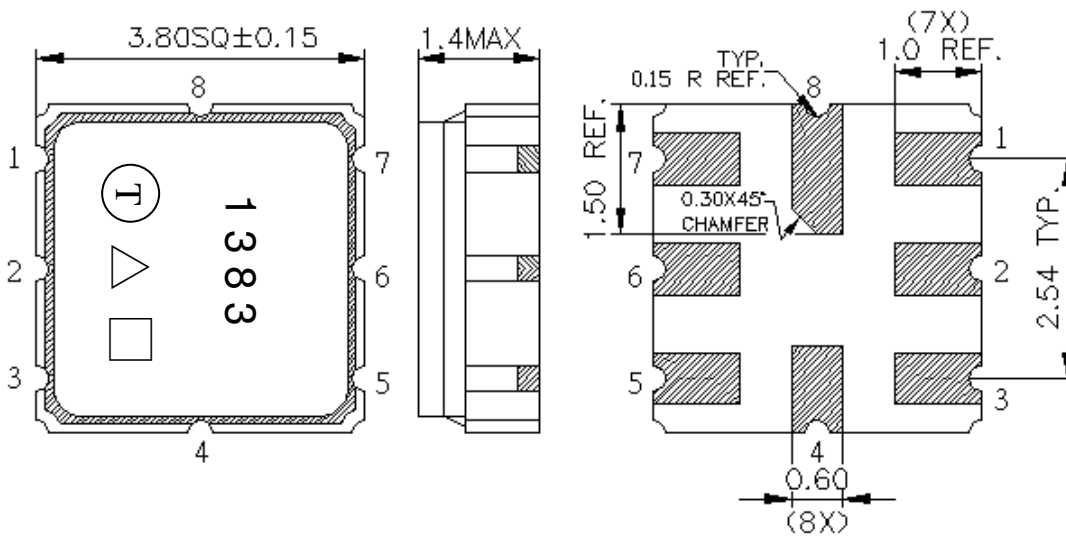


### D. MEASUREMENT CIRCUIT:



$L1=L2=2.7nH$   $C1=C2=3pF$

### E. OUTLINE DRAWING:



Pin 3 – RF Input

Pin 7 – RF Output

Others – To Be Ground

□: Week Code

△: Product / Year Code

Unit: mm

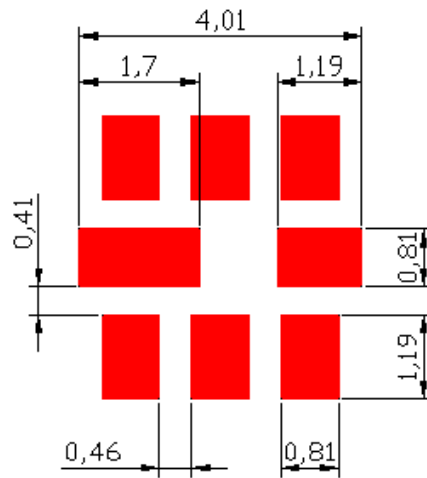
#### Year Code

Year	2019 2021	2020 2022
Product Code	B	b

#### 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

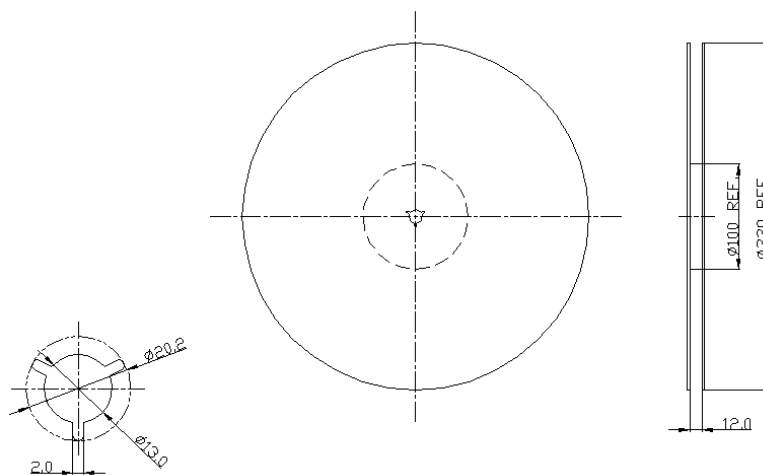
## F. PCB FOOTPRINT:



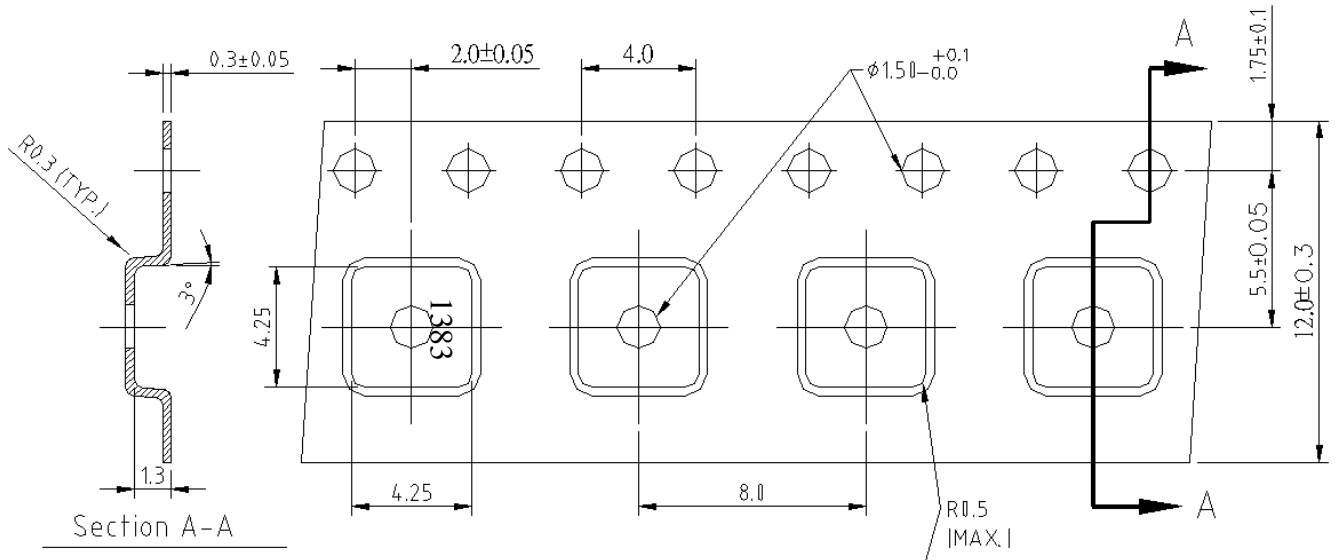
## G. PACKING:

### 1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity 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  $60 \sim 90$  seconds.
2. Ascending time to preheating temperature  $150^\circ\text{C}$  shall be 30 seconds min.
3. Heating shall be fixed at  $220^\circ\text{C}$  for  $50 \sim 80$  seconds and at  $260^\circ\text{C} +0/-5^\circ\text{C}$  peak ( $20 \sim 40$ sec).
4. Time: 2 times.

