



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: SAW IF Filter 374MHz

TST Parts No.: TB0135A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/09/12

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 IF Filter 374MHz

MODEL NO.: TB0135A

REV. NO.:9.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -10°C to 85°C
3. Storage Temperature: -40°C to 85°C
4. Moisture Sensitivity Level: Level 1 (**MSL 1**)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	374	-	
Insertion Loss, IL	dB	-	8.5	10	
Passband width, BW3	MHz	17	19.5	-	
Amplitude Ripple in $Fc \pm 7\text{MHz}$	dB	-	0.6	1	
Group delay ripple in $Fc \pm 7\text{MHz}$	nS	-	39	100	
Triple transit suppression	dB	30	37	-	
Attenuation:(Reference level from Min IL)					
Fc -100 to -33MHz	dB	45	53	-	
Fc -33 to -22MHz	dB	40	56	-	
Fc -22 to -16.5MHz	dB	30	48	-	
Fc +16.5 to +22MHz	dB	30	41	-	
Fc +22 to +43 MHz	dB	35	43		
Fc +43 to +80MHz	dB	40	45	-	

C.FREQUENCY CHRACTERISTICS:

(1) wide band of Response:

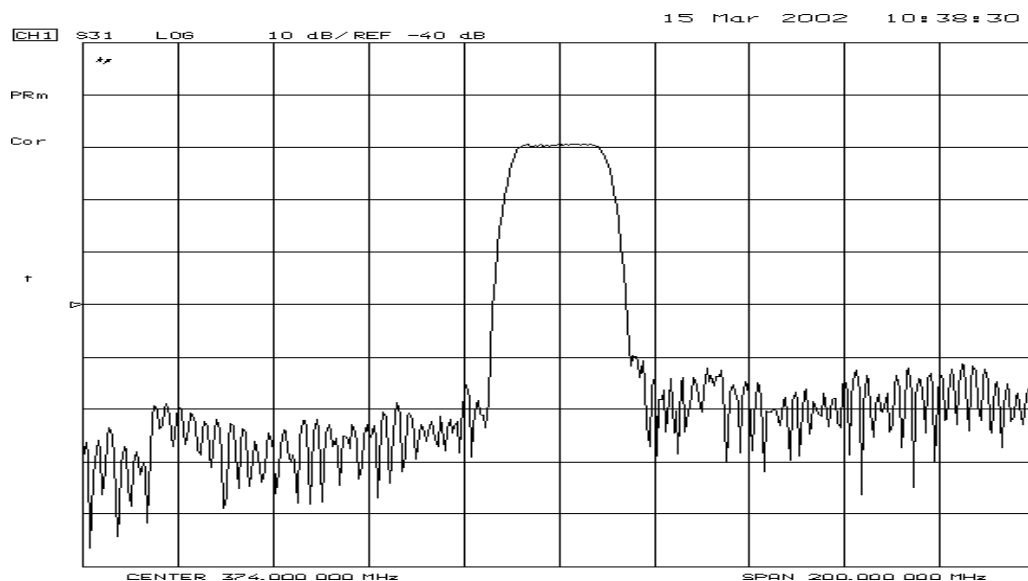


Fig.1 S21 Response REF. : -40dB Horizontal: 3MHz/Div
Vertical: 10dB/Div

(2) Passband of Response:

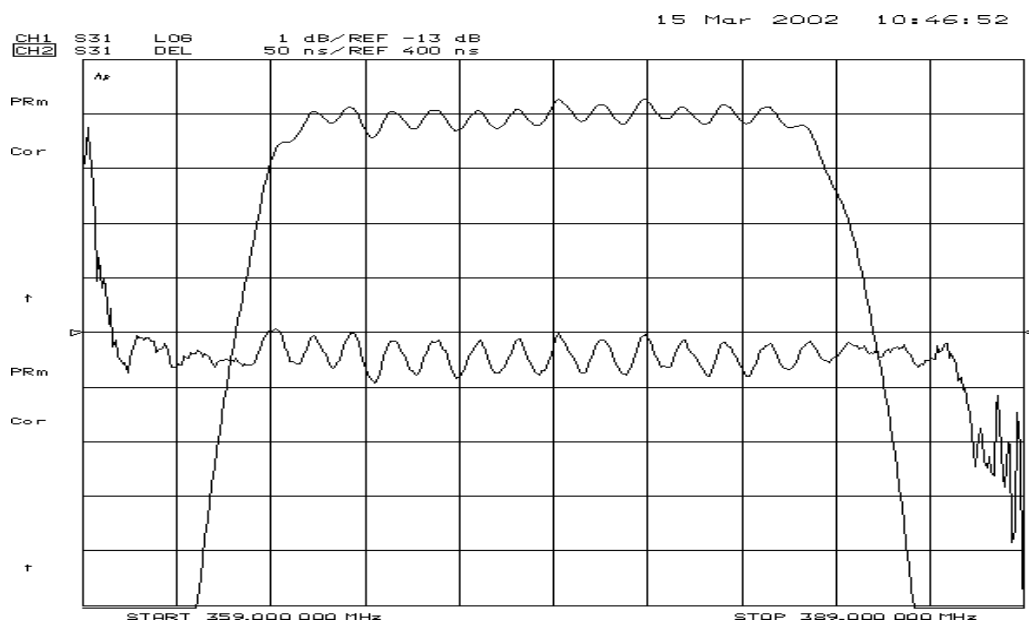
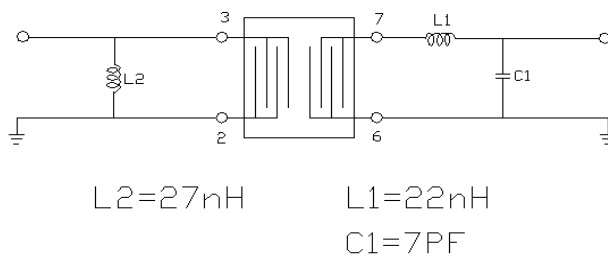


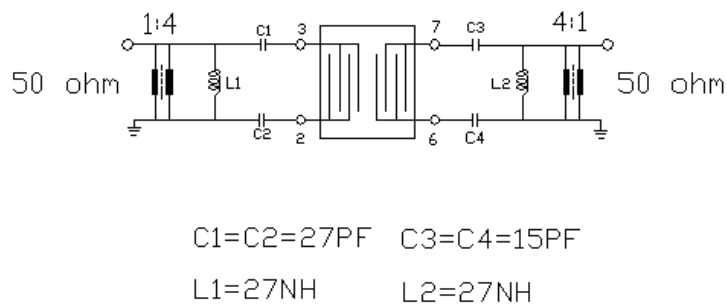
Fig.2 S21 Response Horizontal: 3MHz/Div
Vertical: 1dB/Div, 50nS

D. MEASUREMENT CIRCUIT:

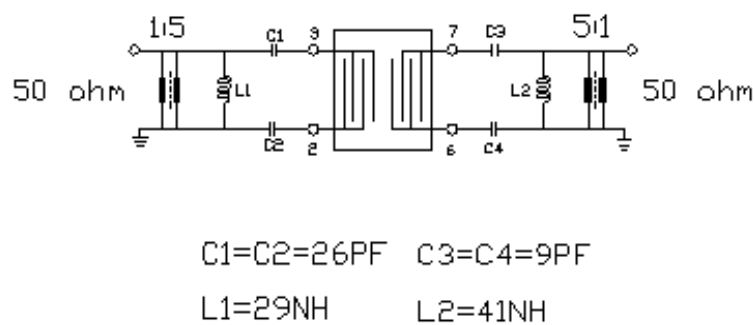
(1) 50Ω unbalanced:



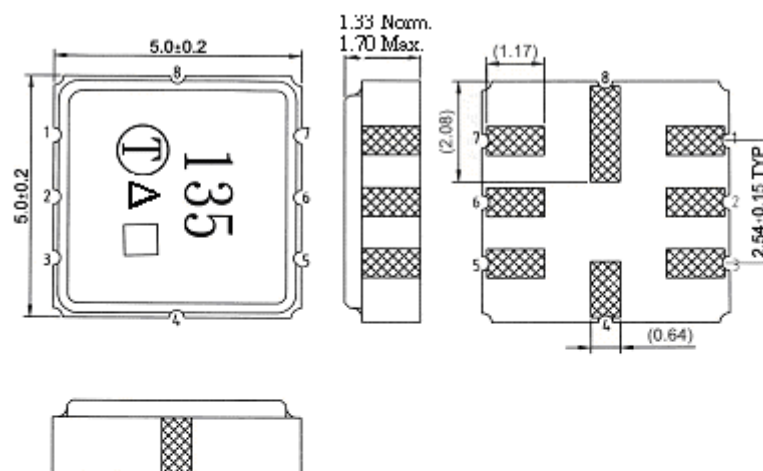
(2) 200Ω balanced:



(3) 250Ω balanced:



E.OUTLINE DRAWING:



#3 ~ 2 : Input, Input Ground or bal. Input
 #7 ~ 6 : Output, Output Ground or bal. Output
 #1 ~ 5 : Ground
 #4 ~ 8 : Case Ground
 △ : Year code
 □ : Date code
 Unit : mm

Marking:

Line 1: TST P/N (135)

Line 2: TST Logo + IF SAW Filter Product Code(△) + Date Code(□)

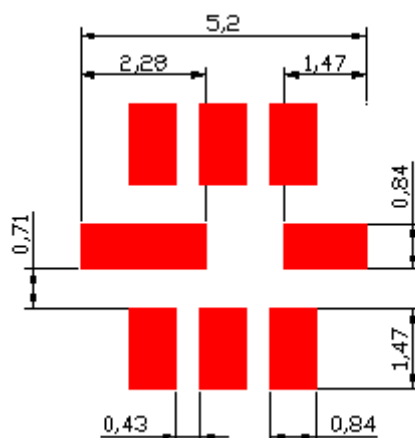
Product Code Table(△)

Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	<u>B</u>	<u>b</u>

Date Code Table(□)

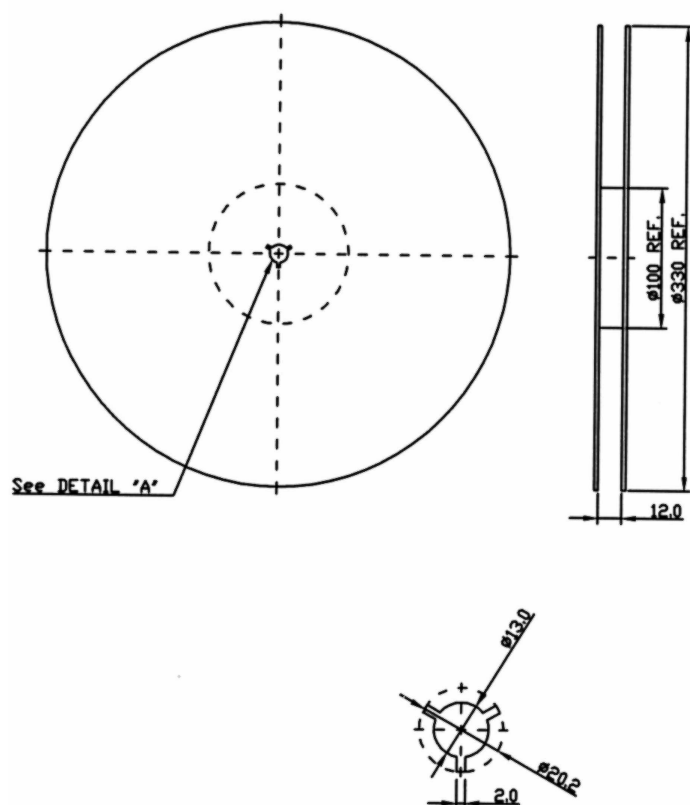
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB FOOTPRINT:

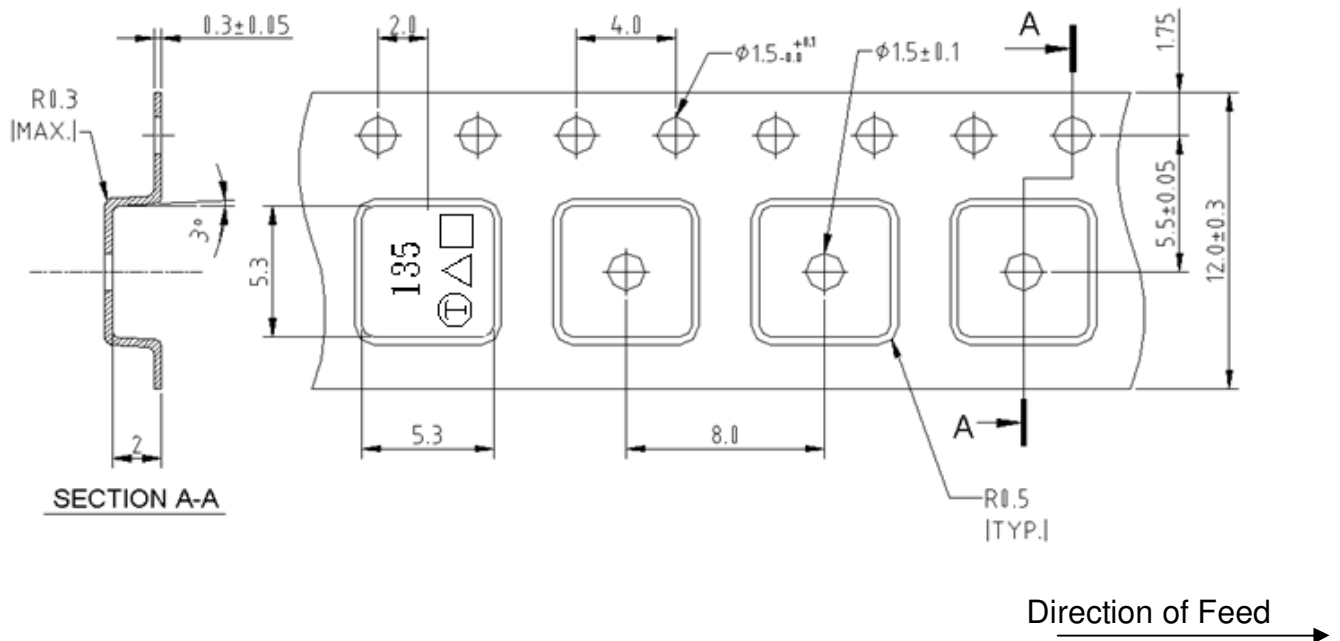


G. PACKING:

1.REEL DIMENSION(Please refer to FR-75D10 for packing quantity)



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.

