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Product Specifications Approval Sheet

Product Name: IF SAW Filter 374 MHz 10.5MHz BW SMD 5.0mmX5.0mm

TST Parts No.:TB0501A

Customer Parts No.:_____

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

Checked by:_____ Kazuma Lee *Kazuma Lee*

Approval by:_____ Andy Yu *Andy Yu*

Date:_____ 2018/12/10

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.

IF SAW Filter 374MHz SMD 5.0X5.0mm

MODEL NO.: TB0501A

Rev. No.: 3.0

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Characteristics			Value			Note.
			Min.		Max.	
Center frequency	F_C	MHz	-	374	-	-
Maximum Insertion loss	I.L.	dB	-	10.0	11.5	-
1dB Bandwidth		MHz	10.5	11.7	-	
3dB Bandwidth		MHz	-	13.8	-	
35dB Bandwidth		MHz	-	19.9	-	
Passband Ripple in $F_C \pm 5.25$ MHz		dB	-	0.5	1	-
Group Delay Ripple in $F_C \pm 5.25$ MHz		nS	-	35	100	-
Temp Coefficient		ppm/°C		-25		
Attenuation:(Reference level from minimum insertion loss)						
1)	279 ~ 346 MHz	dB	40	51	-	-
2)	346 ~ 357 MHz	dB	40	50	-	-
3)	357 ~ 361 MHz	dB	35	46	-	-
4)	387 ~ 391 MHz	dB	25	42	-	-
5)	391 ~ 425 MHz	dB	30	47	-	-
6)	425 ~ 469 MHz	dB	40	52	-	-

C. FREQUENCY CHARACTERISTICS:

1. S21 Response

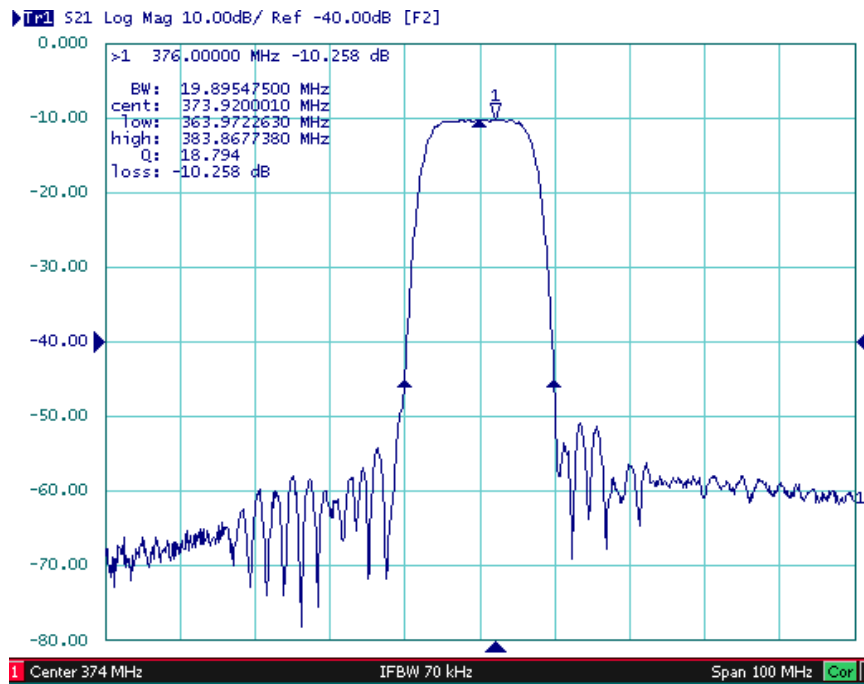


Fig. 1 Horizontal: 10MHz; Vertical: 10dB/Div

2. Passband Response

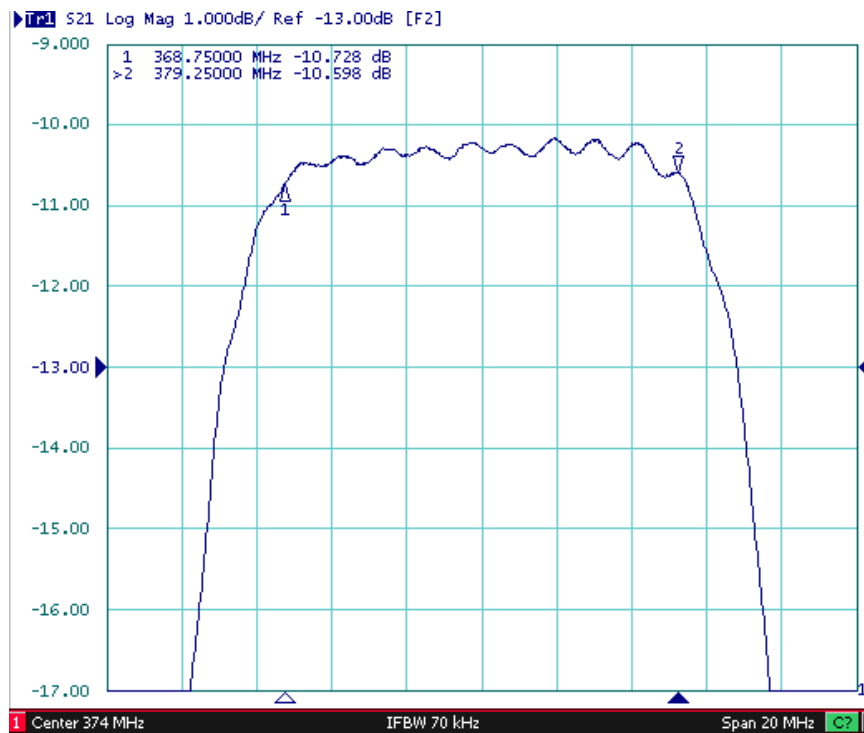


Fig. 2 Passband Horizontal: 2MHz; Vertical: 1dB/Div

3. Group Delay

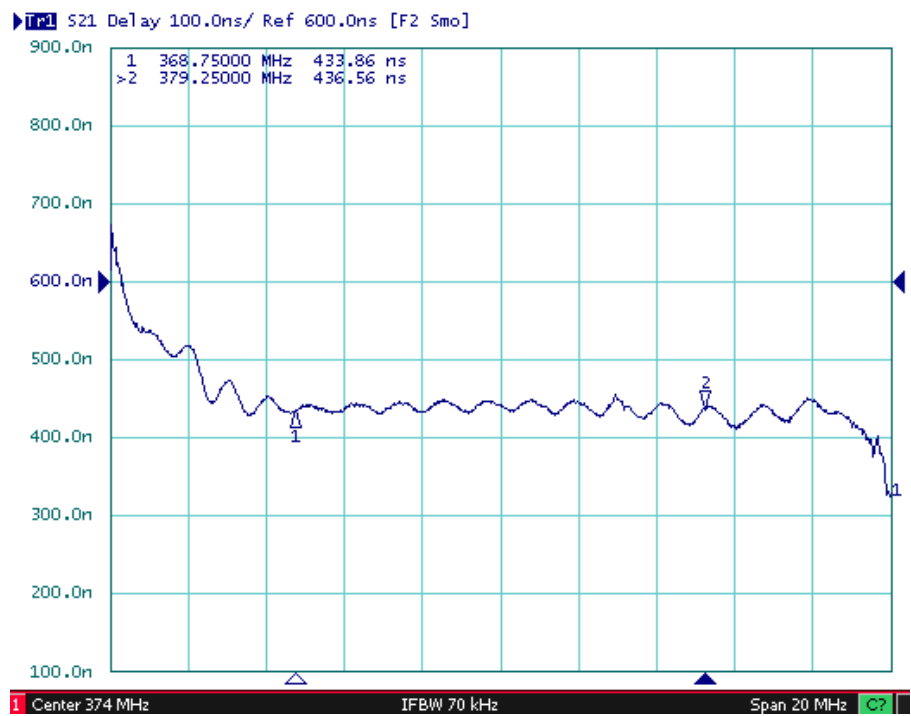


Fig. 3 Passband Horizontal: 2MHz; Vertical: 1dB/Div

4. Wide band

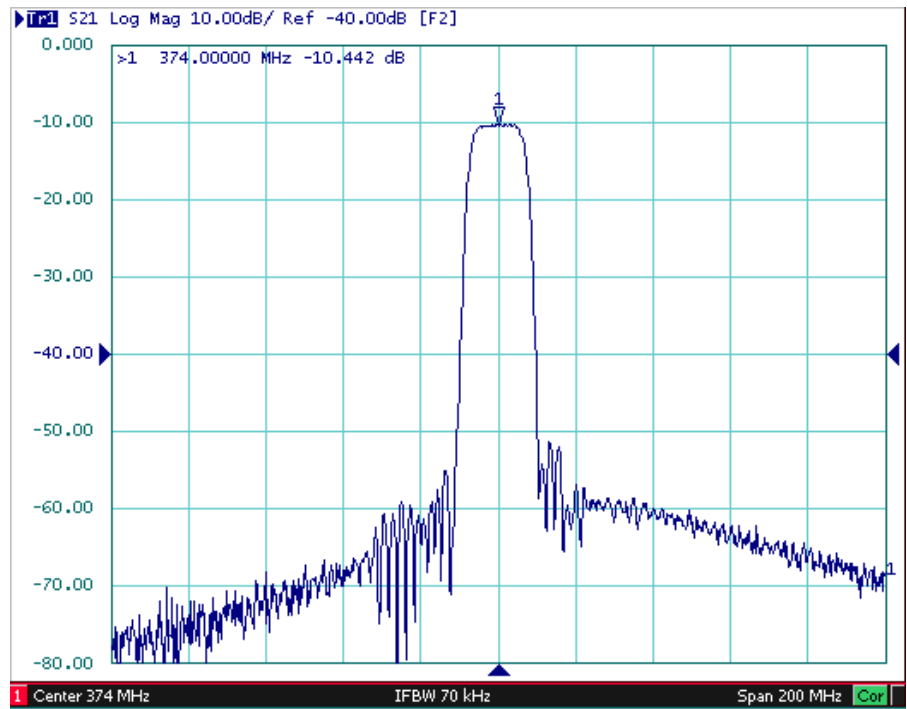
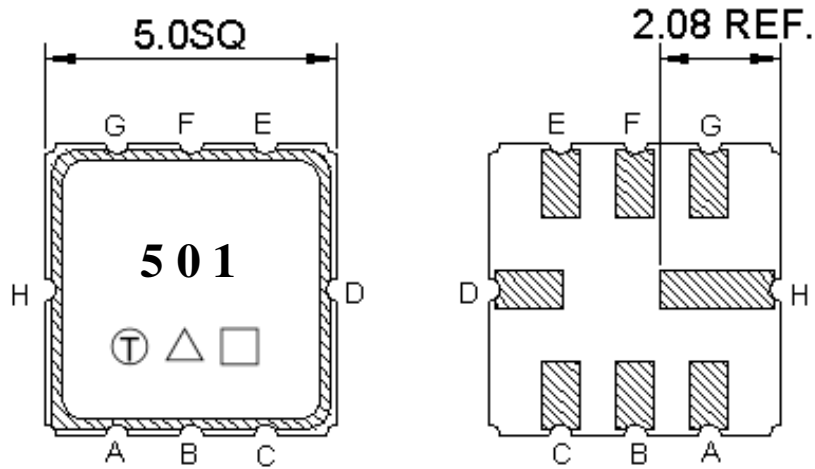


Fig. 4 Passband Horizontal: 20MHz; Vertical: 10dB/Div

D. OUTLINE DRAWING:



Tolerance: $\pm 0.13\text{mm}$

Pin configuration

#C RF Input

#B RF Input ground

#G RF Output

#F RF Output ground

#A,D,E,H To be ground

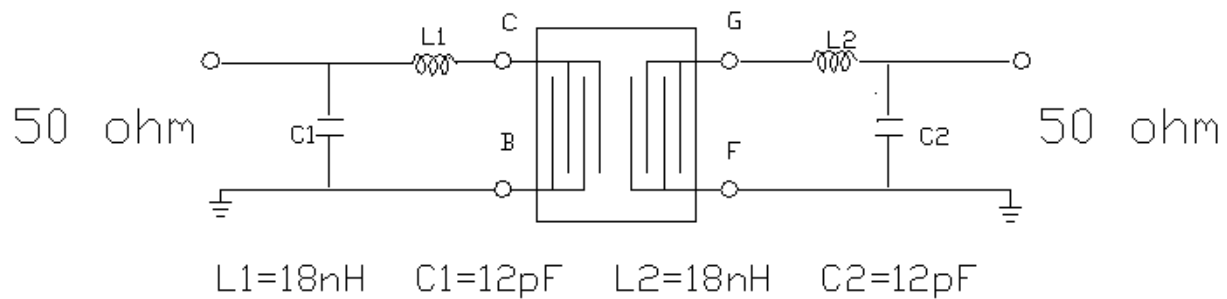
□ : Week Code (Follow the table from planner each year)

△ : Product / Year Code

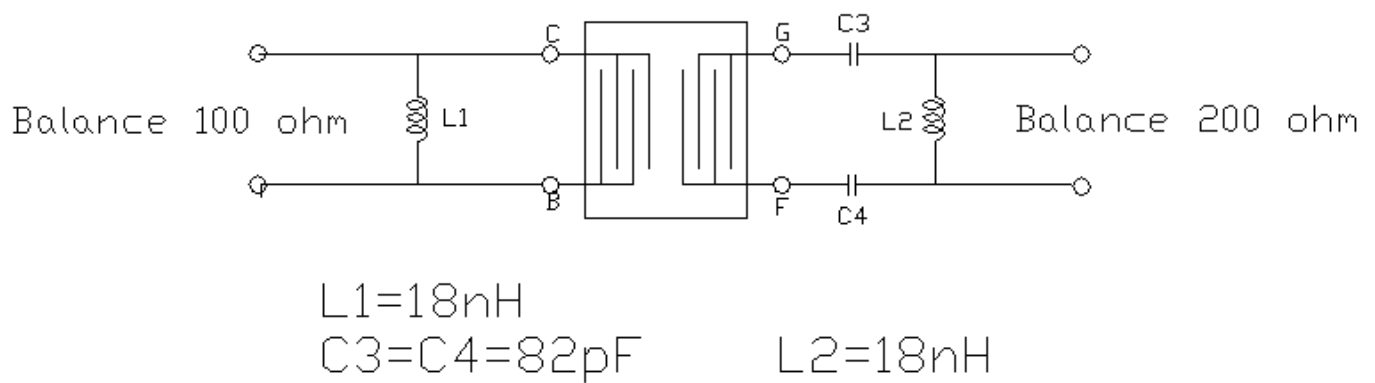
Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	<u>B</u>	<u>b</u>

E. MATCHING CIRCUIT:

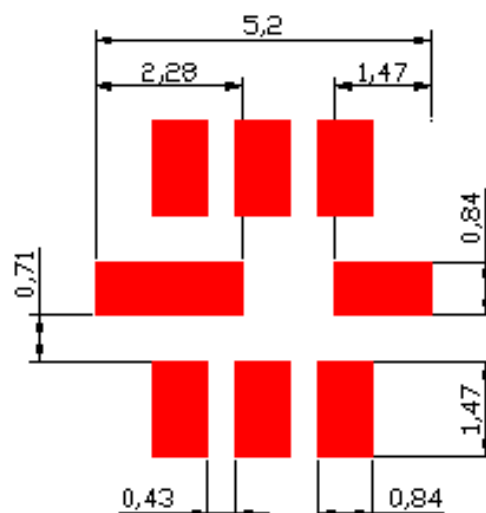
(1) Single end input 50 ohm to Single end output 50 ohm



(2) Balanced input 100 ohm to Balanced output 200 ohm



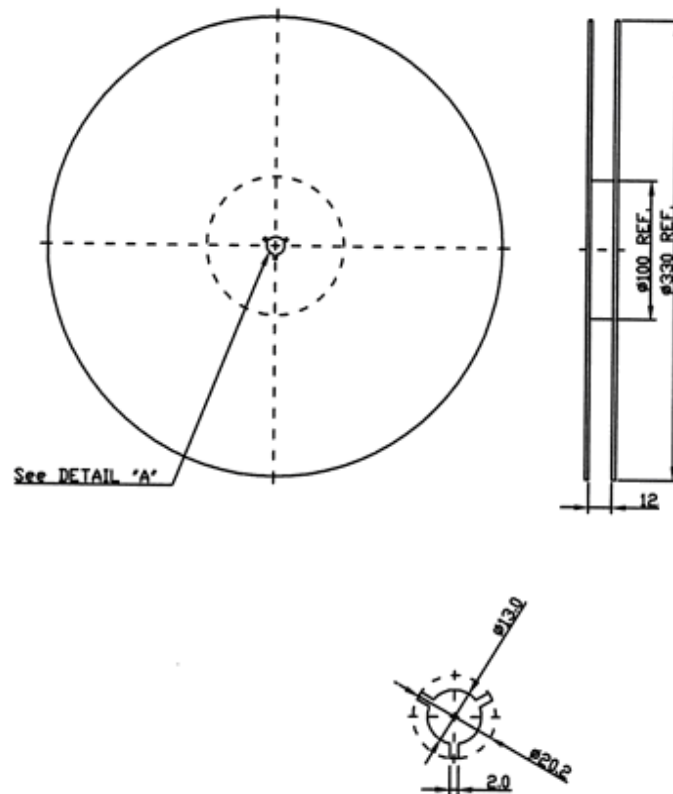
F. PCB FOOTPRINT:



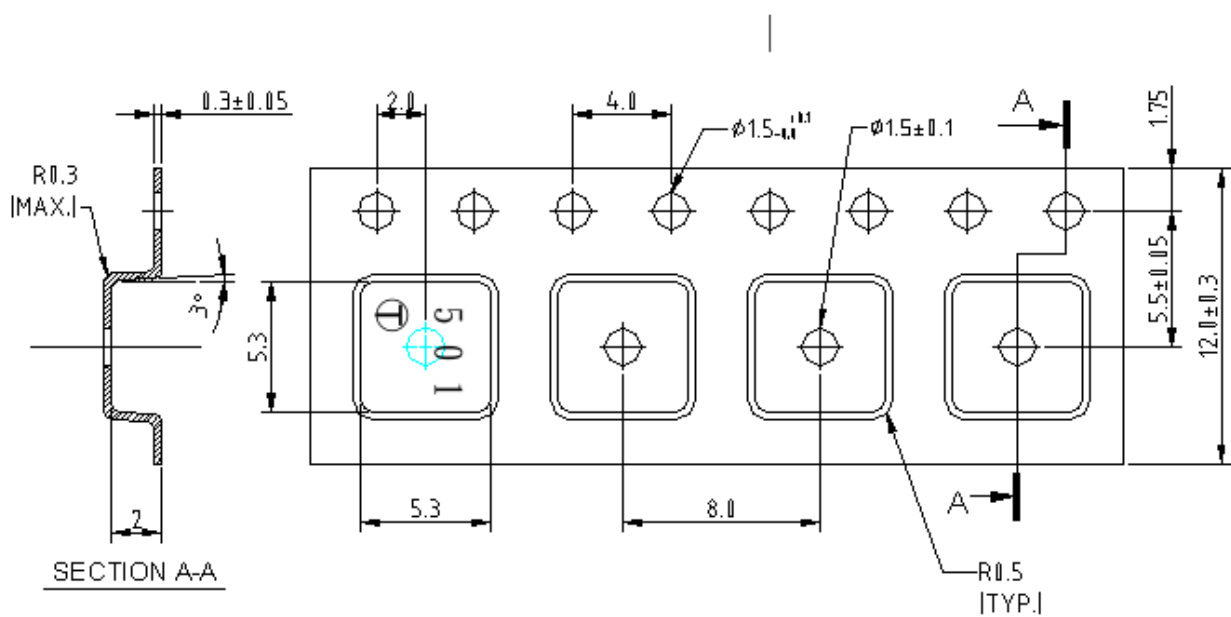
G. PACKING:

(1). REEL DIMENSION

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



(2). TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

