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: SAW Filter 420 MHz SMD 5.0X7.0 mm (BW=20MHz)

TST Part No.: TA0409A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen _____

Approved by:_____ Kazuma Lee _____

Date:_____ 02. 22 . 2022 _____

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 420 MHz

MODEL NO.: TA0409A REV. NO.:3

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m
2.DC voltage: 5 V
3.Operating Temperature: -25°C to +75°C
4.Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)

RoHS Compliant
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

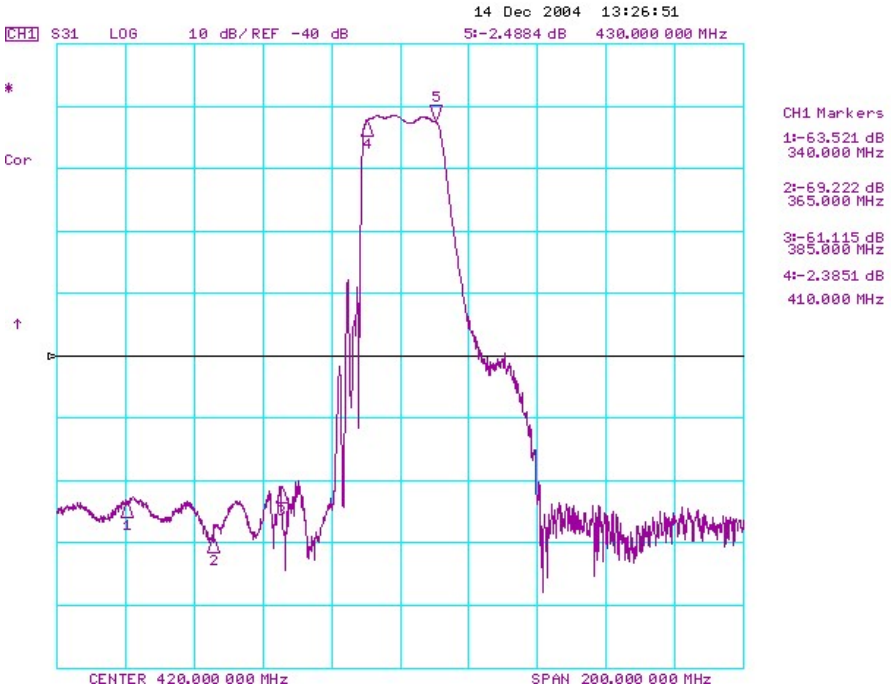
B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

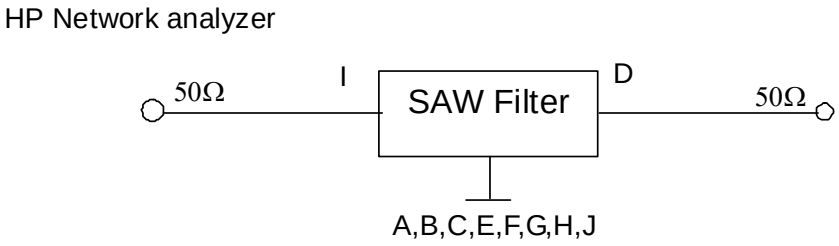
Item		Unit	Min.	Type.	Max.
Center frequency	Fc	MHz	-	420	-
Minimum Insertion Loss	IL_{min} (reference level)	dB	-	1.6	3.5
Ripple	Fc±10MHz	dB		1.3	2.5
Relative Attenuation:(Reference level from IL_{min})					
320 to 340 MHz		dB	45	60	-
365 to 385 MHz		dB	40	58	-
Temperature coefficient of frequency		ppm/K	-	-37	-
Source impedance	Zs	Ω	-	50	-
Load impedance	Z_L	Ω	-	50	-

Note: IL_{min} is the minimum of the pass band attenuation. The center frequency F_c is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL_{min}.

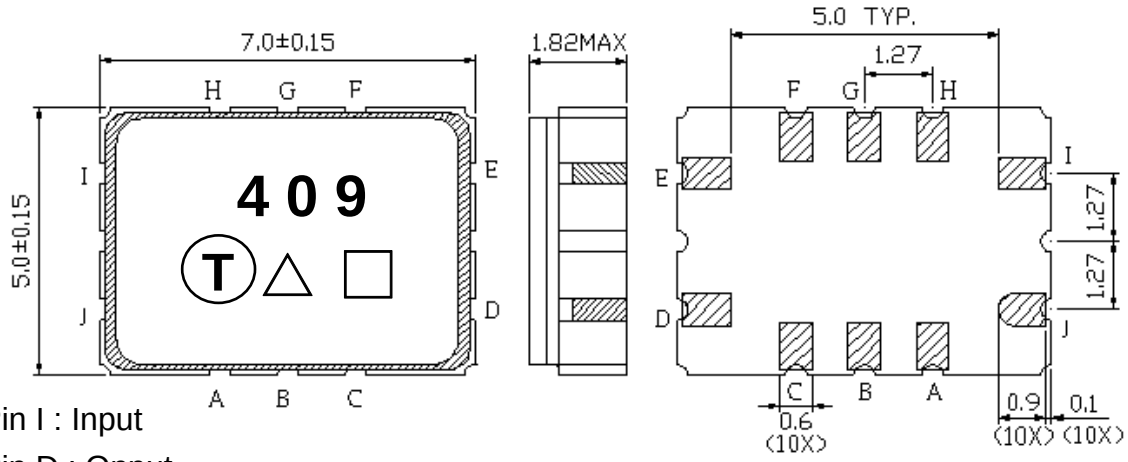
F. FREQUENCY CHARACTERISTICS:



D. MEASUREMENT CIRCUIT:



E.OUTLINE DRAWING:



Pin I : Input

Pin D : Onput

Pin A, B,C, E, F, G, H, J : Ground

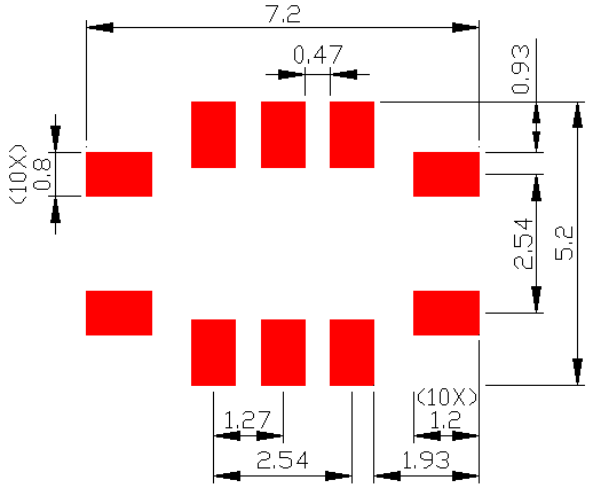
△: Year Code**(4-year cycle)**

□: Date Code (Follow the table provided by planner each year.)

Unit : mm

Year	2021	2022	2023	2024
	2025	2026	2027	2028
Year Code	A	a	A	a

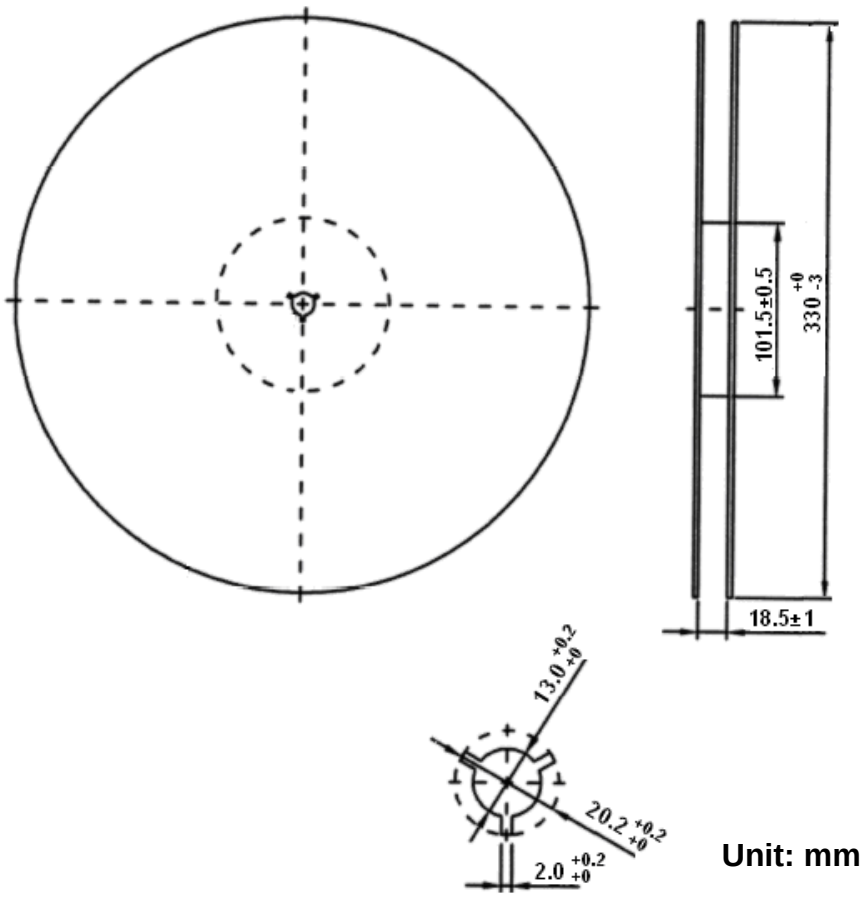
F.PCB FOOTPRINT:



G. <u>PACKING</u>:

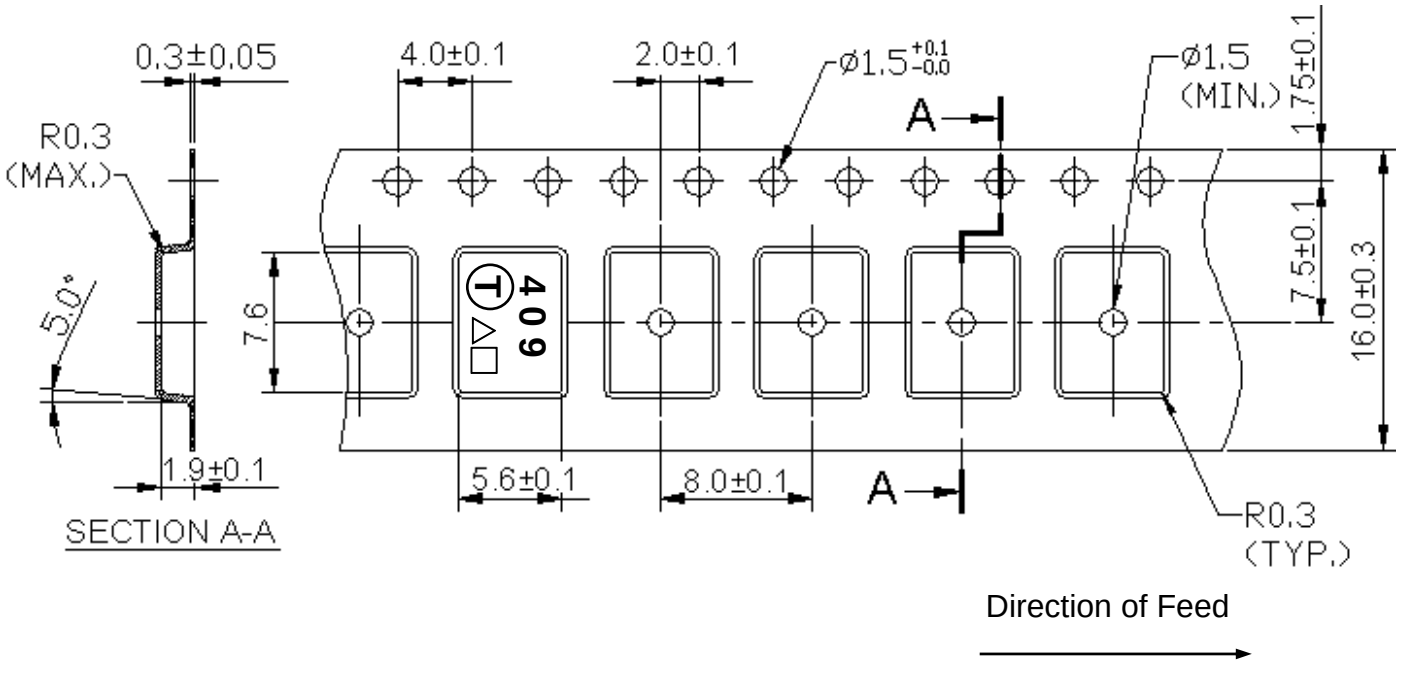
1. REEL DIMENSION

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



Unit: mm

2. TAPE DIMENSION



H. <u>RECOMMENDED REFLOW PROFILE</u>:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.