SAW Filter 420 MHz

MODEL NO.: TA0409A REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. 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(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice

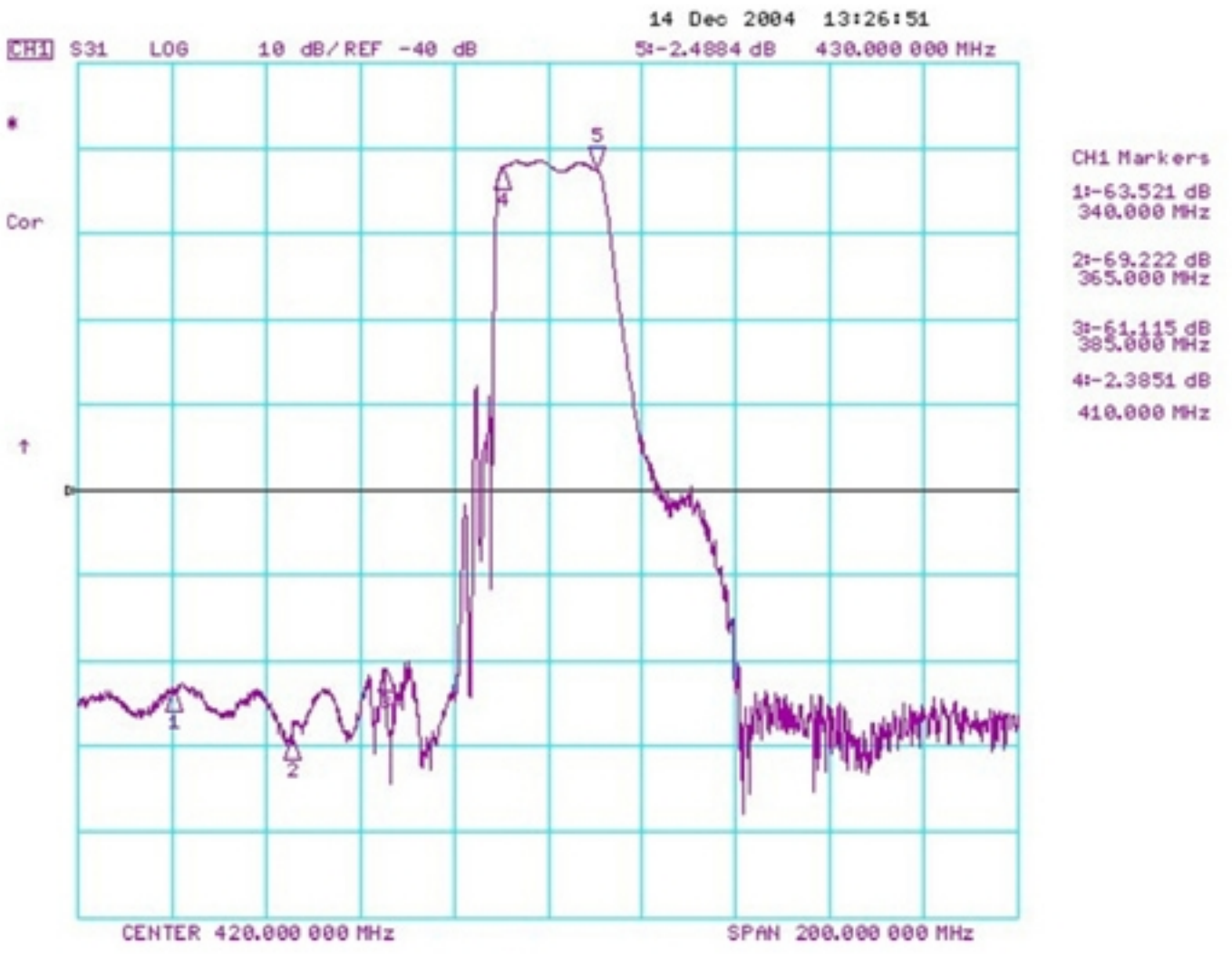
B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

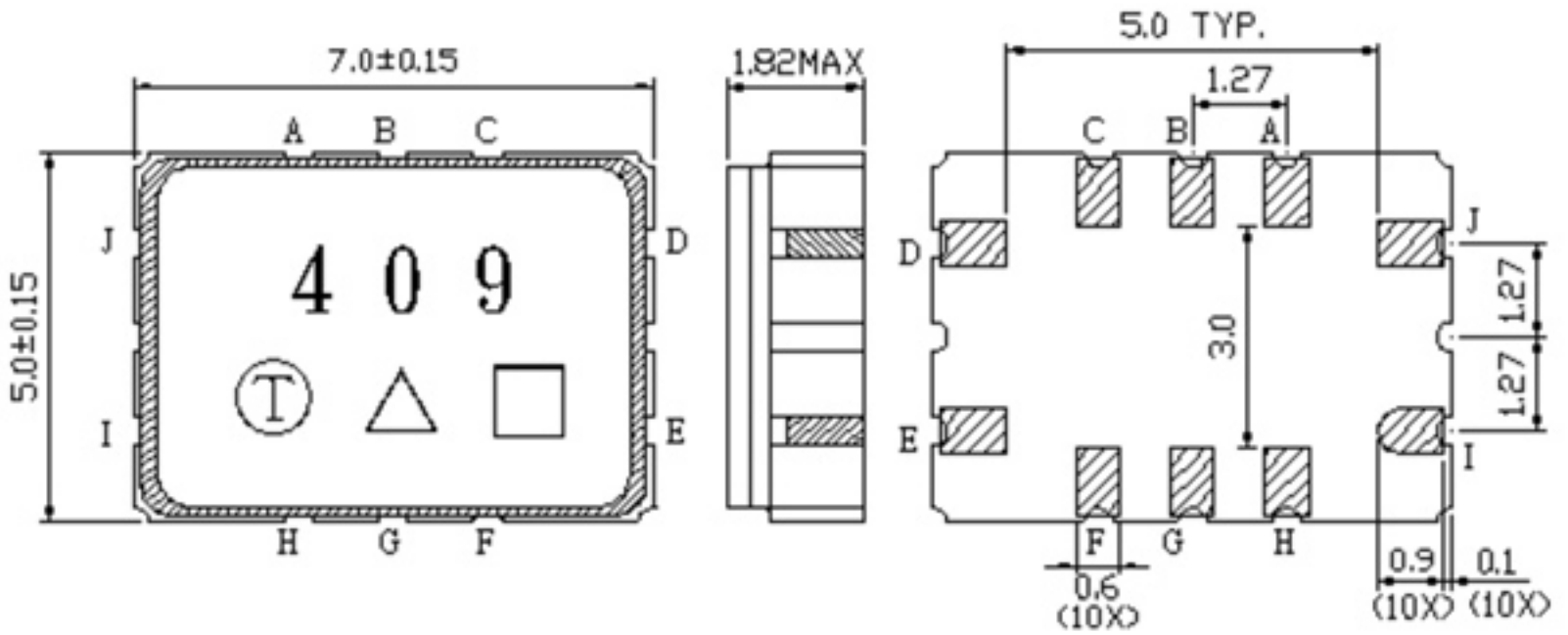
Item		Unit	Min.	Type.	Max.
Center frequency	Fc	MHz	-	420	-
Minimum Insertion Loss	IL_{min} (reference level)	dB	-	1.6	3.5
Ripple	Fc 10MHz	dB		1.3	2.5
Relative Attenuation:(Reference level from IL_{min})					
320 to 340 MHz		dB	45	60	-
365 to 385 MHz		dB dB	40	58	-
Temperature coefficient of frequency		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 2.5dB filter attenuation level relative to the IL_{min}.

C. Frequency Characteristics :



D.OUTLINE DRAWING:



PinI : Input

PinD : Output

PinA、B、C、E、F、G、H、J : Ground

△ : Year code

□ : Date code(Fallow the table provided by planner each year)

Unit : mm

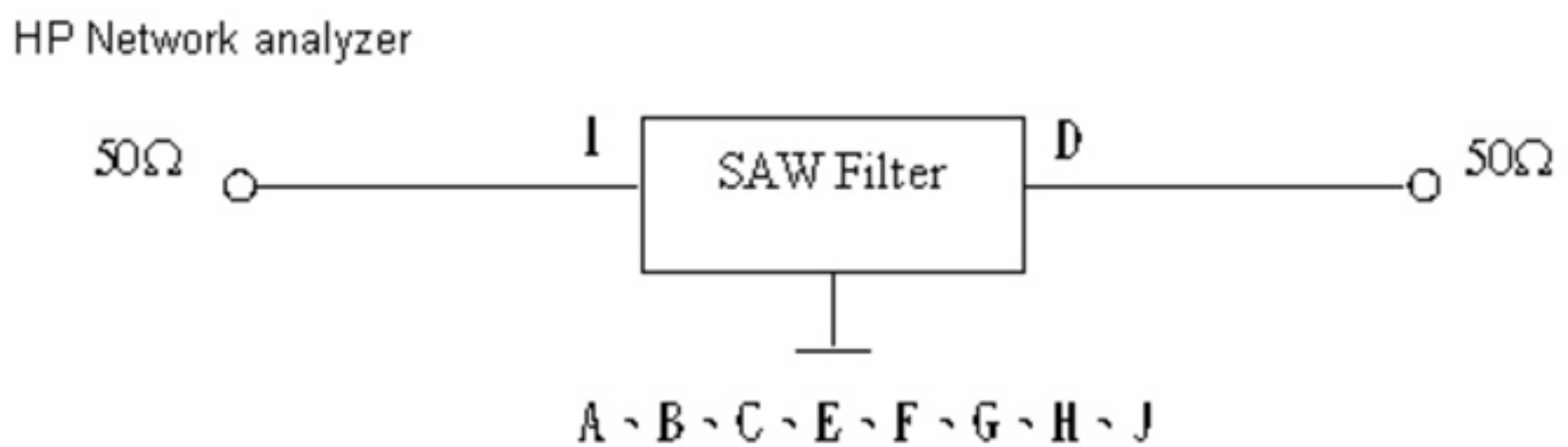
Product / Year Code- 4year cycle

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

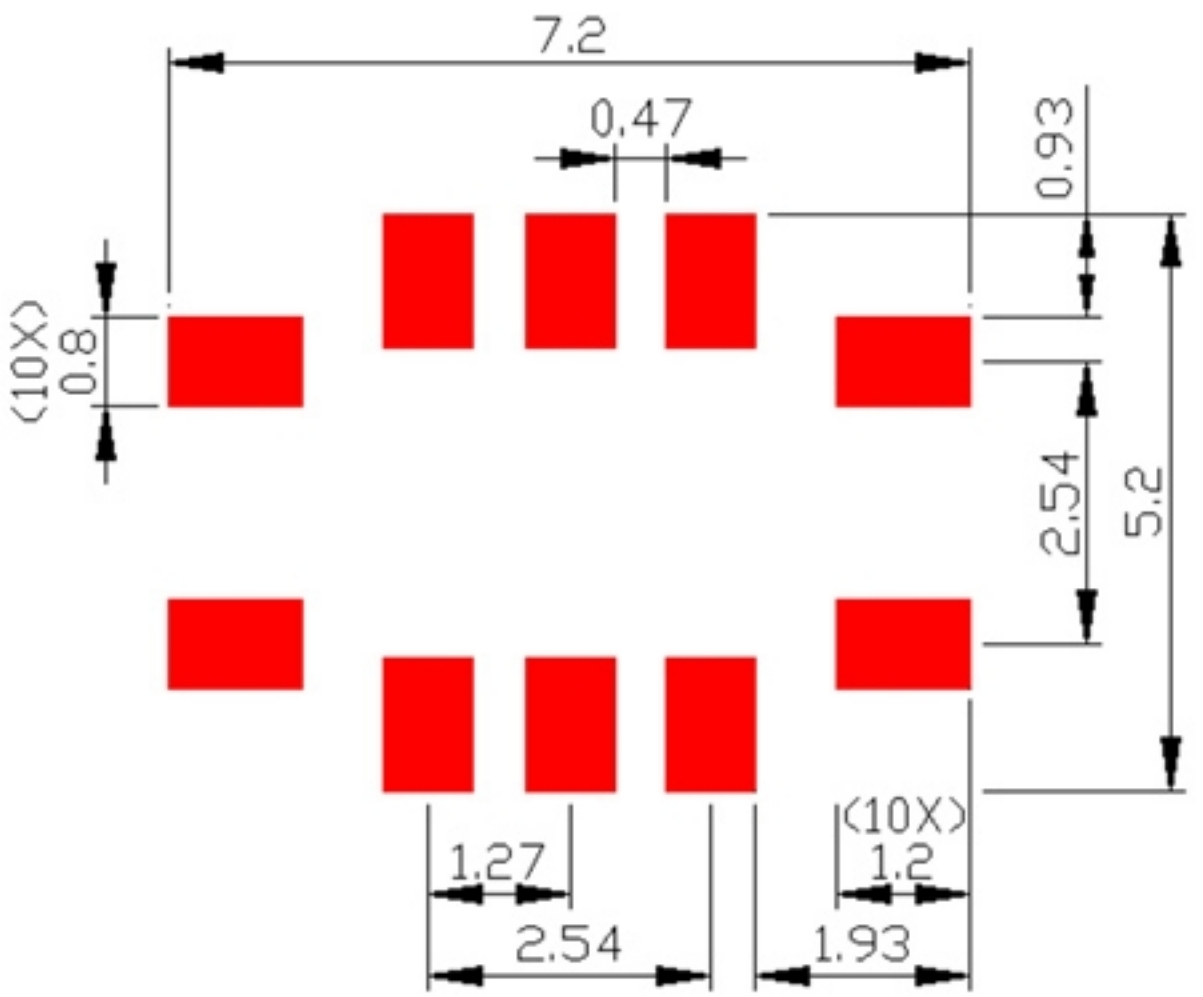
Week Code Table

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

E. MEASUREMENT CIRCUIT:

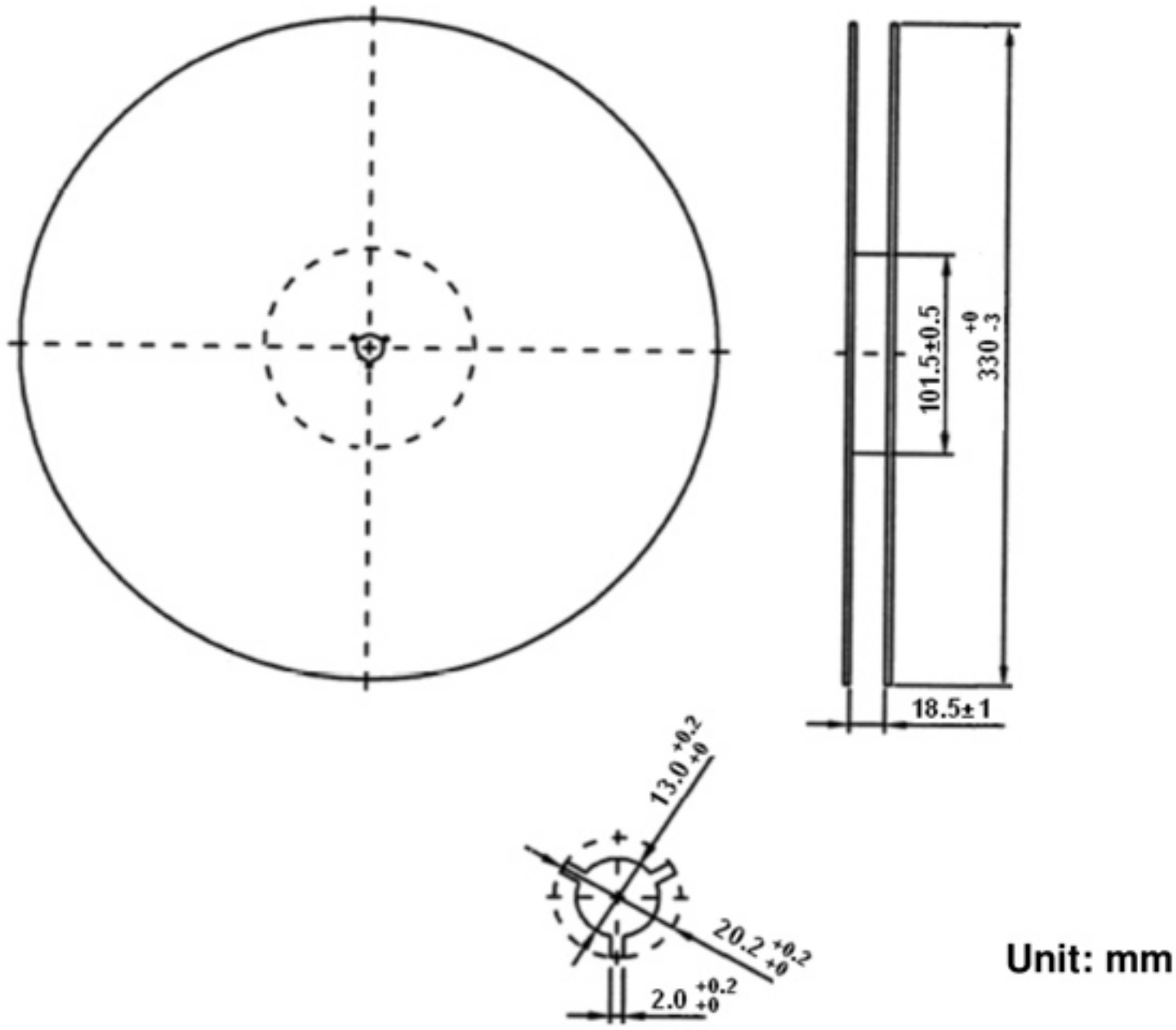


F.PCB FOOTPRINT:



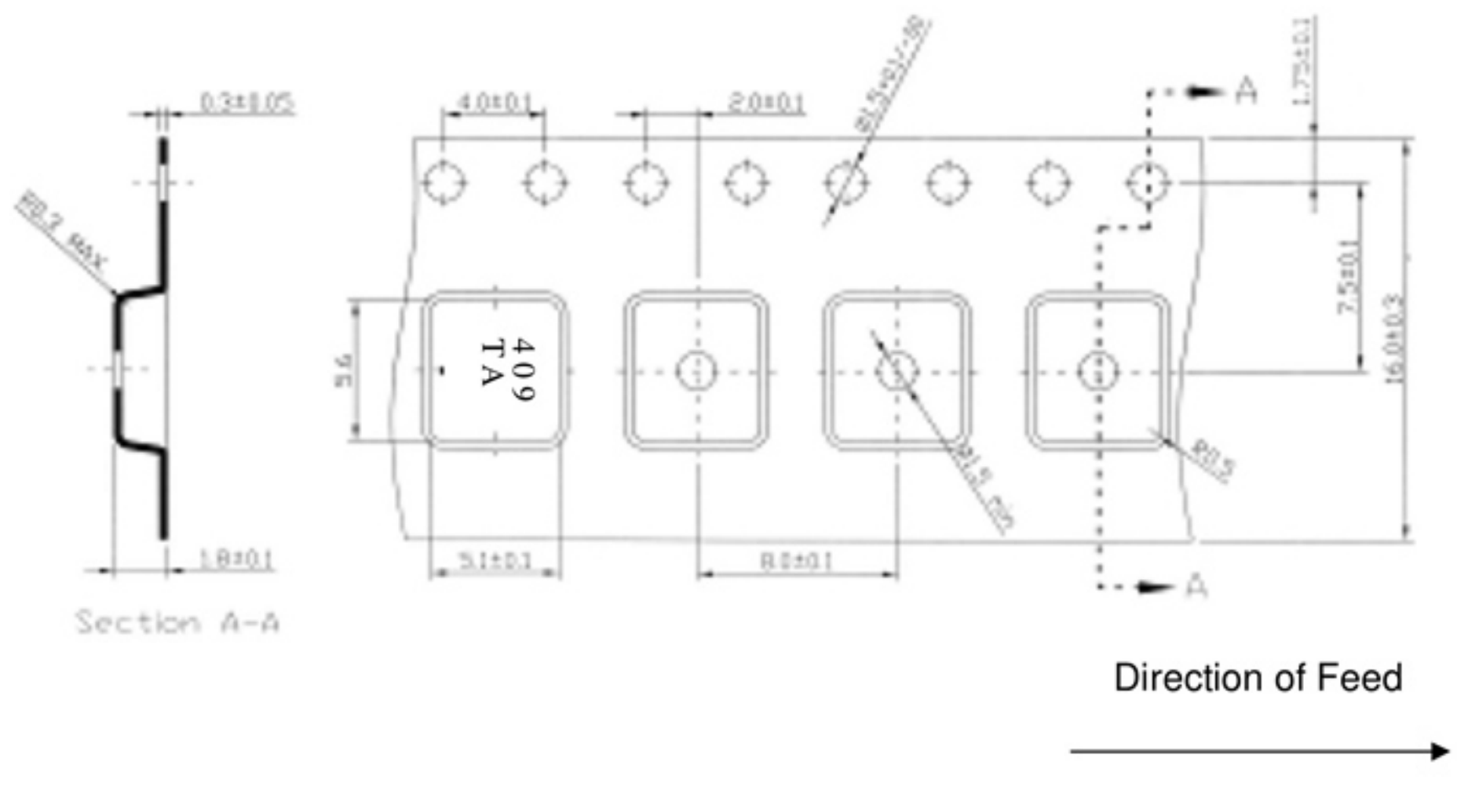
G. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

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.