

281MHz SAW Filter

MODEL NO.: TA0204A

REV. NO.:3.0

A. MAXIMUM RATING:

1. Input Power Level: 0 dB_m
2. DC voltage: 10 V
3. Operating Temperature: -10°C to +50°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

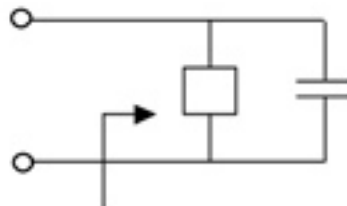
Characteristics	Specification	Note
Center frequency F_C (MHz)	281	1
I.L. (Within F_C 4 MHz) (dB)	4.5 max.	
Pass band $BW_{4.5dB}$ (MHz)	8.0 min.	1
Ripple(Within F_C 4MHz) (dB)	2.0 max.	1
Attenuation:(Reference level from 0 dB) (dB)		
$F_C - 100MHz$ to $-37.5MHz$ (dB)	48 min.	1
$F_C + 37.5MHz$ to $+ 100MHz$ (dB)	48 min.	
Impedance at F_C ; Input $Z_{IN}=R_{IN} // C_{IN}$	150 Ω // 0 Pf	2
Output $Z_{OUT}=R_{OUT} // C_{OUT}$	150 Ω // 0 Pf	2

Note1. The standard definitions is in JIS C 6703

Note2.

Source impedance

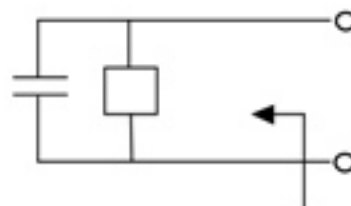
50 Ω



$Z_{IN}=150\Omega // 0pF$

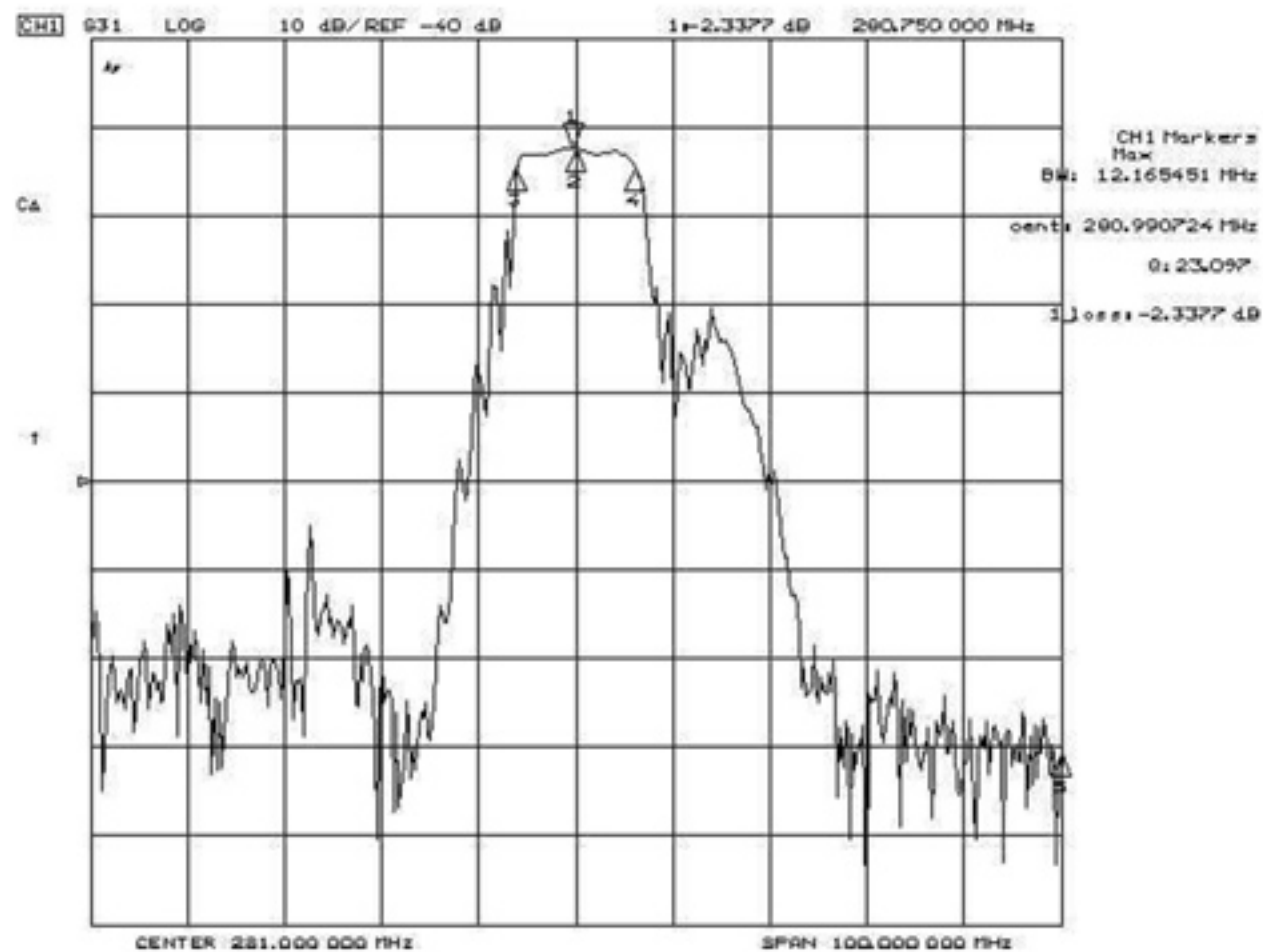
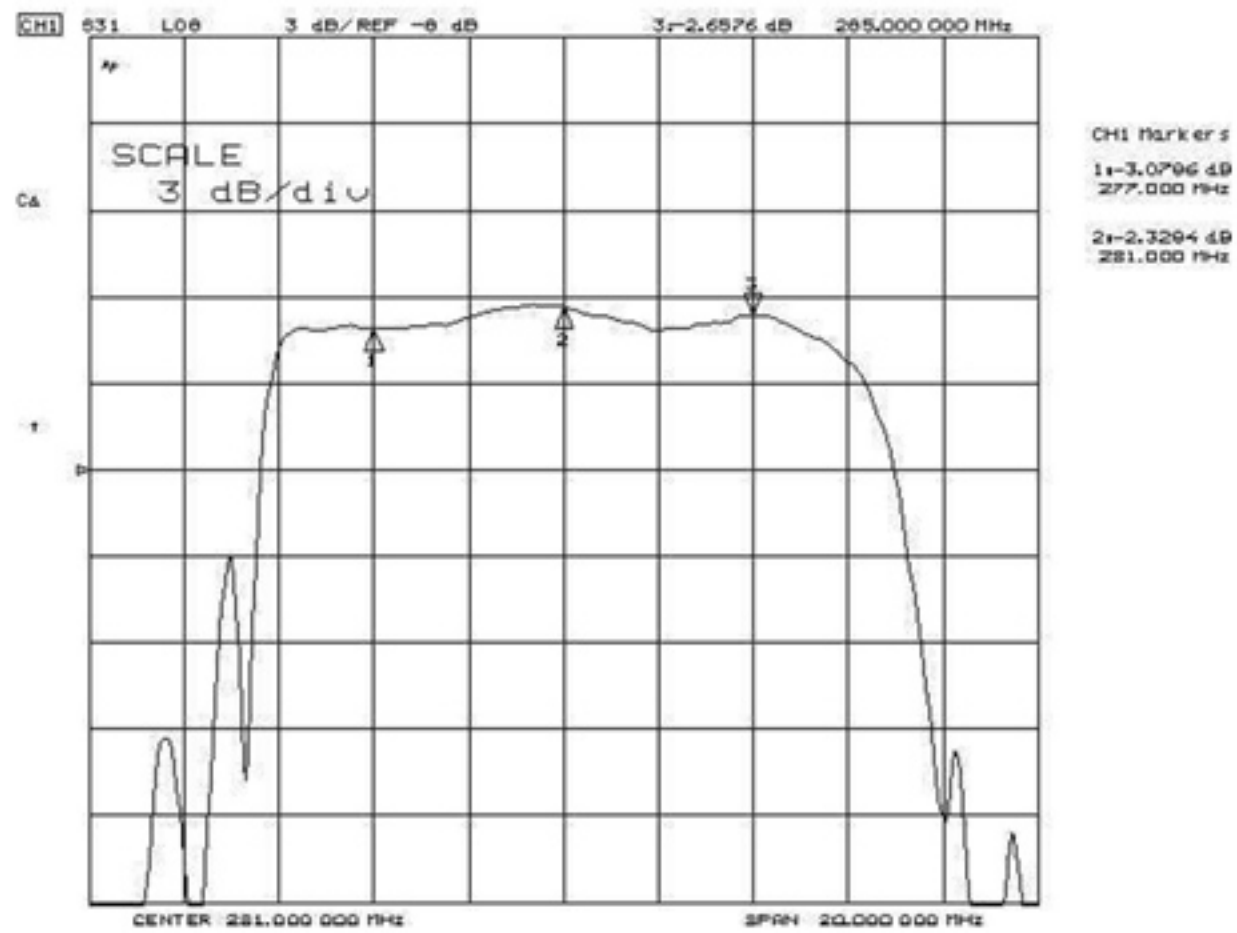
Load impedance

50 Ω

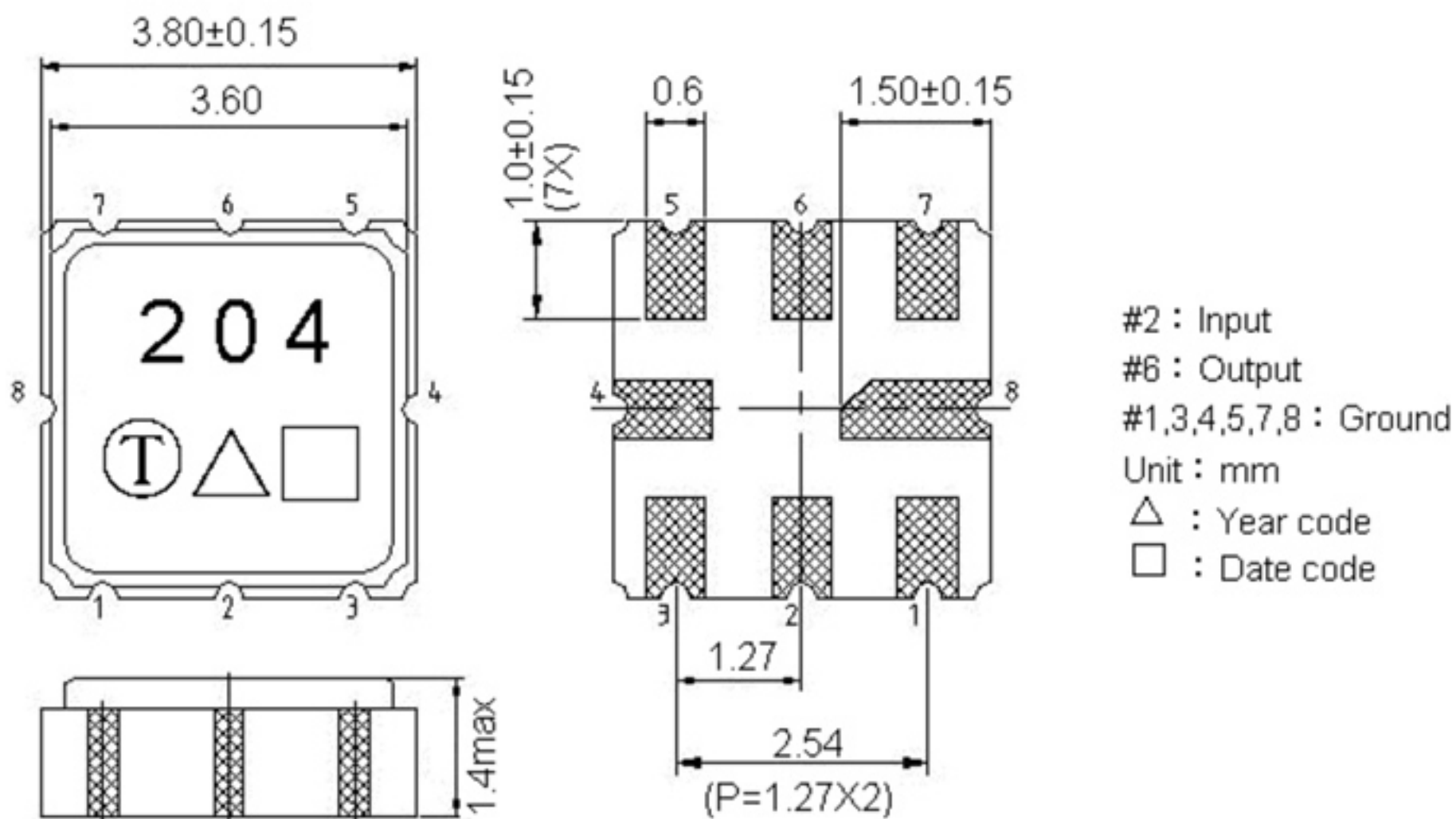


$Z_{OUT}=150\Omega // 0pF$

C. FREQUENCY CHARACTERISTICS:



D.OUTLINE DRAWING:



Year Code

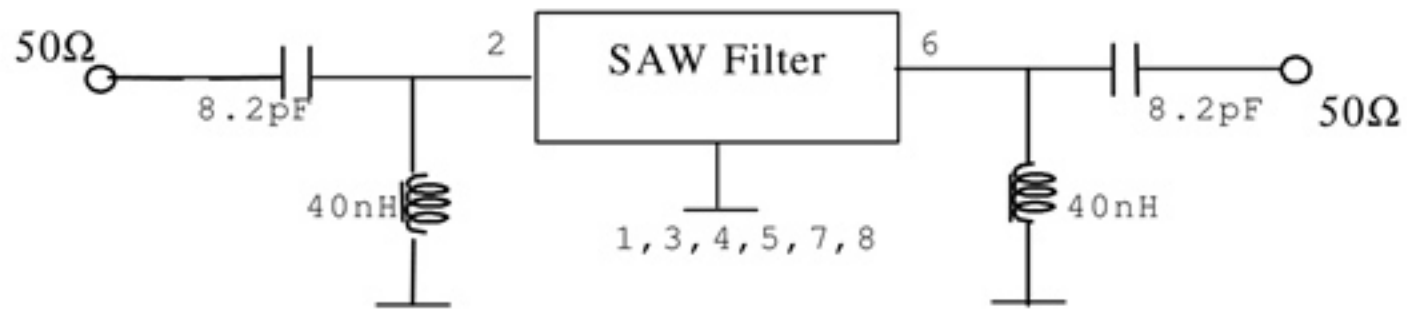
Year	2019 2021	2020 2022
Product Code	A	a

Week Code Table

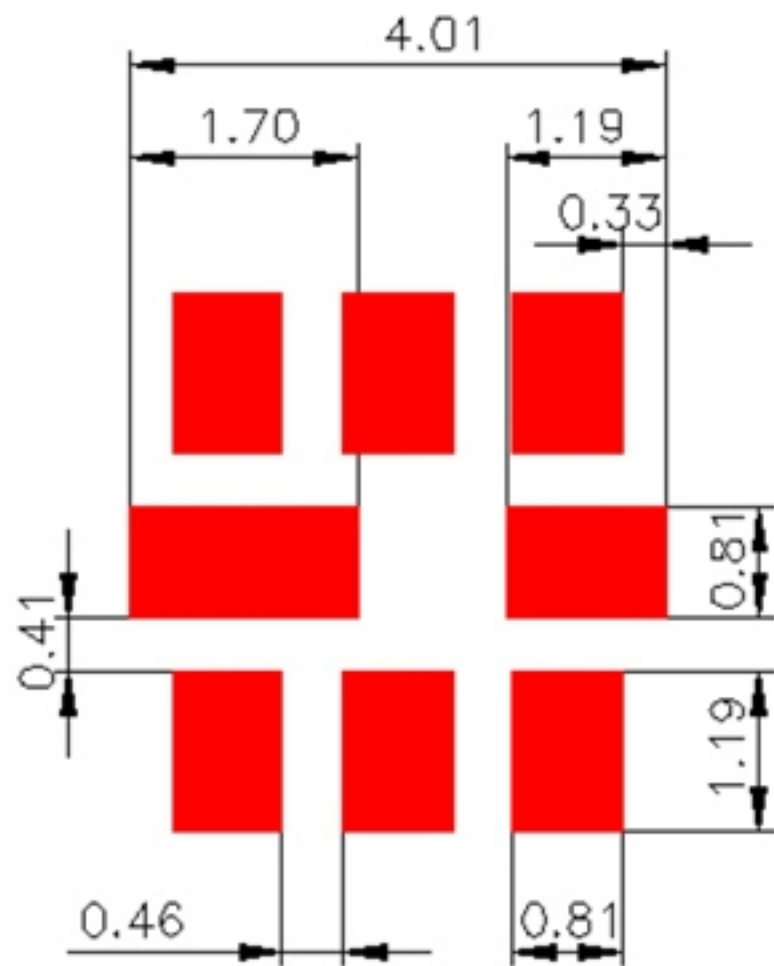
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. MEASUREMENT CIRCUIT:

Network analyzer

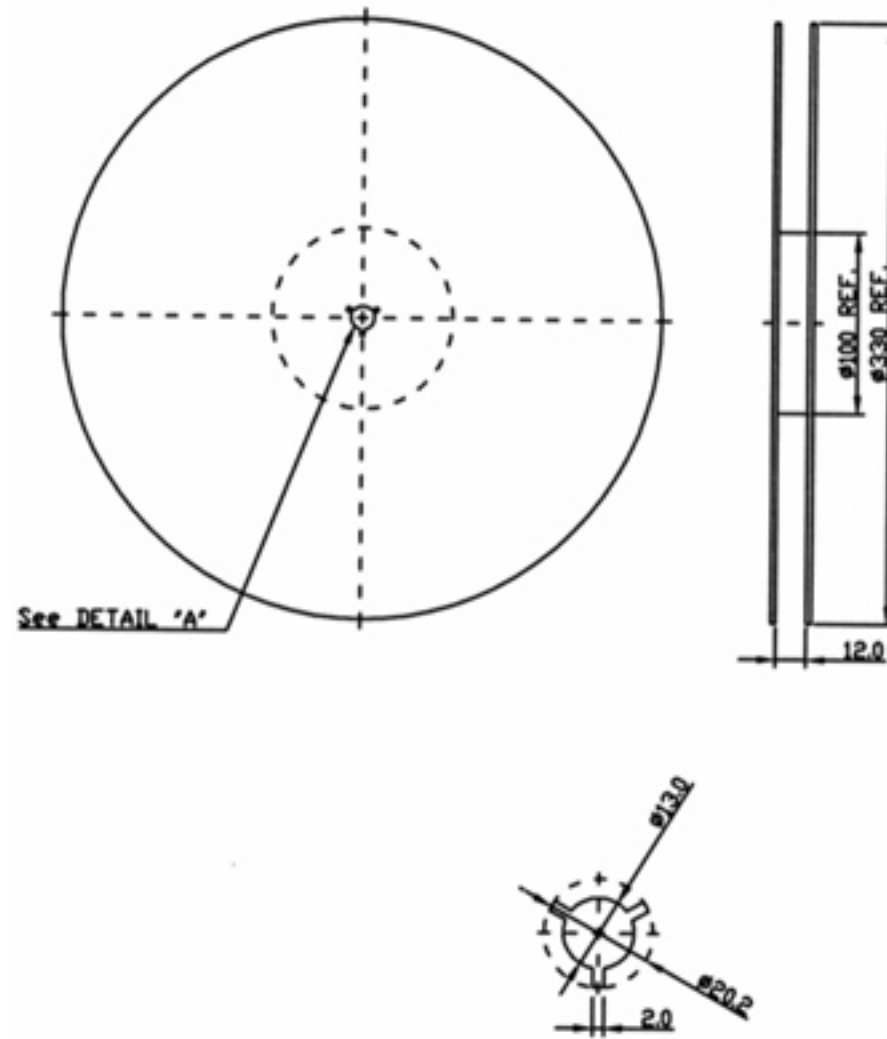


F. PCB FOOTPRINT:

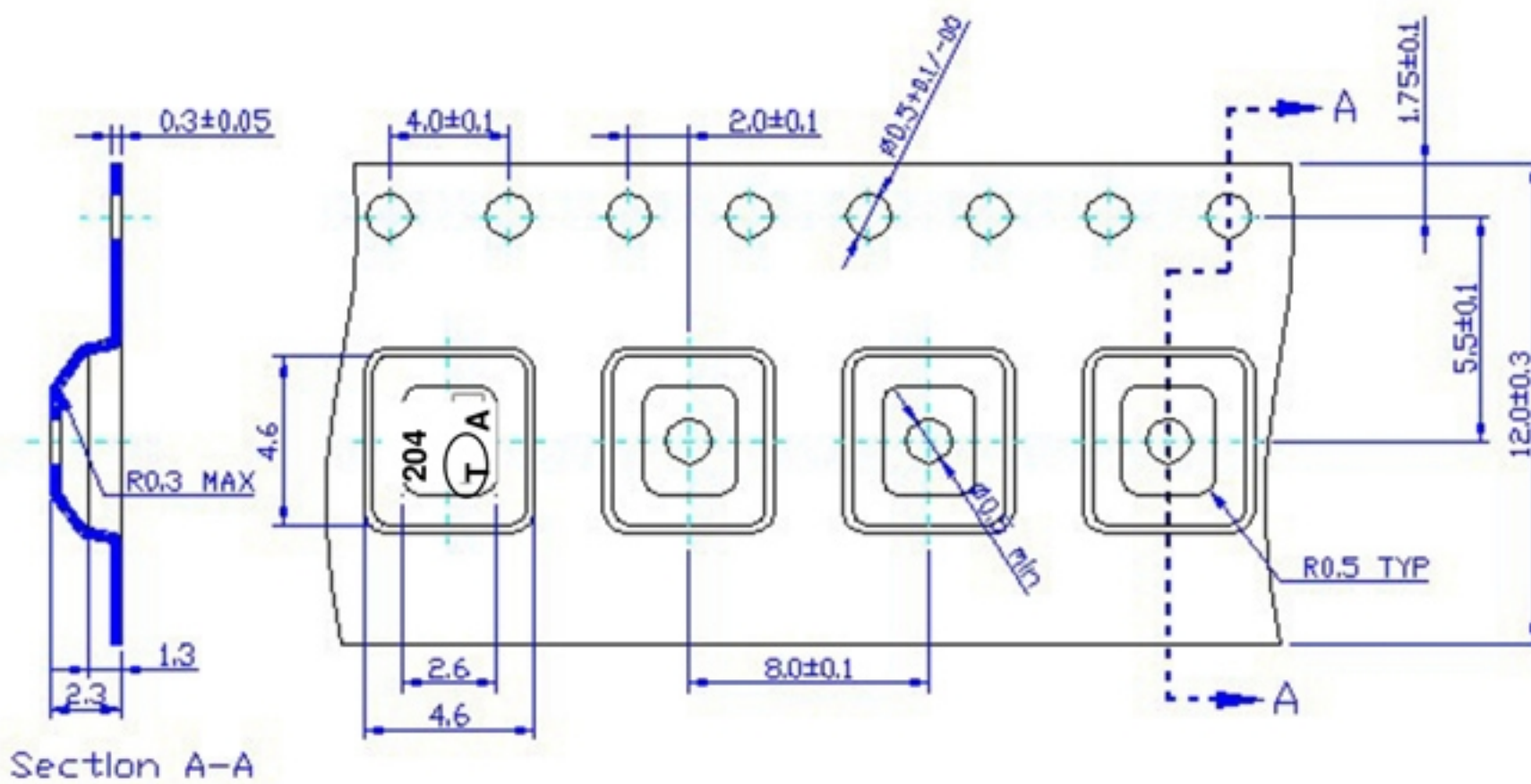


G. PACKING:

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

