

SAW Filter 315 MHz

MODEL NO.: TA0301A

REV. NO.:4.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 6 V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

TA= -40°C to +95°C

Item	Min.	Typ.	Max.	Note
Center frequency F_c (MHz)	-	315	-	1
Minimum I.L. (314.82~315.22 MHz) (dB) IL_{min}	-	2.2	4.0	
Pass band (relative to IL_{min})				
314.77~315.2 MHz (dB)	-	1.5	3.0	1
314.71~315.26 MHz (dB)	-	2.0	6.0	
Pass bandwidth (relative to IL_{min}) BW_3 (KHz)	800	920	-	
Attenuation :(relative to IL_{min}) (dB)				
10~270 MHz (dB)	45	50	-	
270~309 MHz (dB)	30	35	-	1
309~313.94 MHz (dB)	15	20	-	
316~335 MHz (dB)	10	15	-	
335~400 MHz (dB)	35	40	-	
400~1000 MHz (dB)	45	50	-	
Impedance at F_c ; Input $Z_{IN}=R_{IN}/C_{IN}$ Output $Z_{OUT}=R_{OUT}/C_{OUT}$		373Ω // 5.0 pF 373Ω // 5.0 pF		

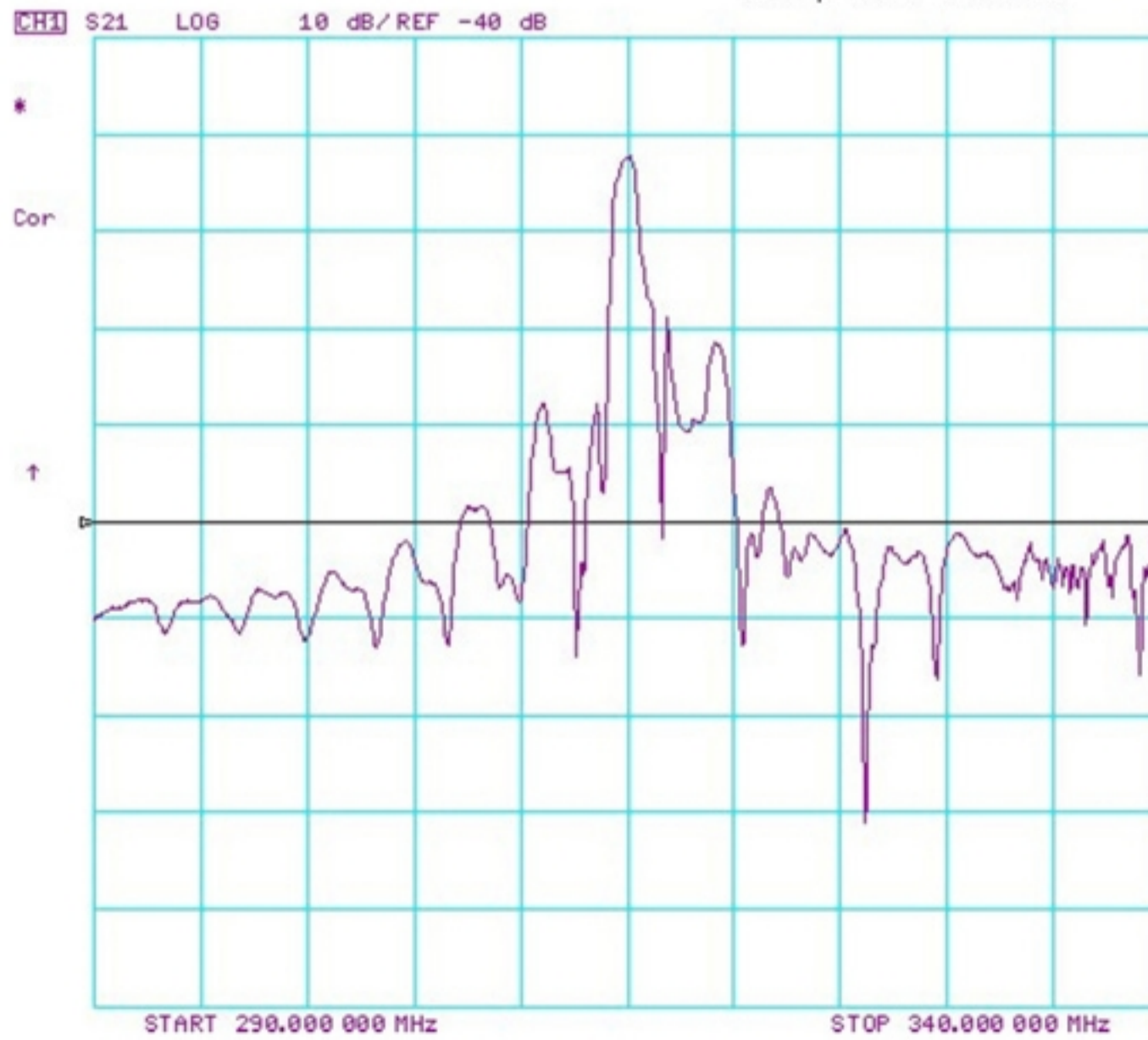
Note1. The standard definitions is in JIS C 6703

C.FREQUENCY CHARACTERISTICS:

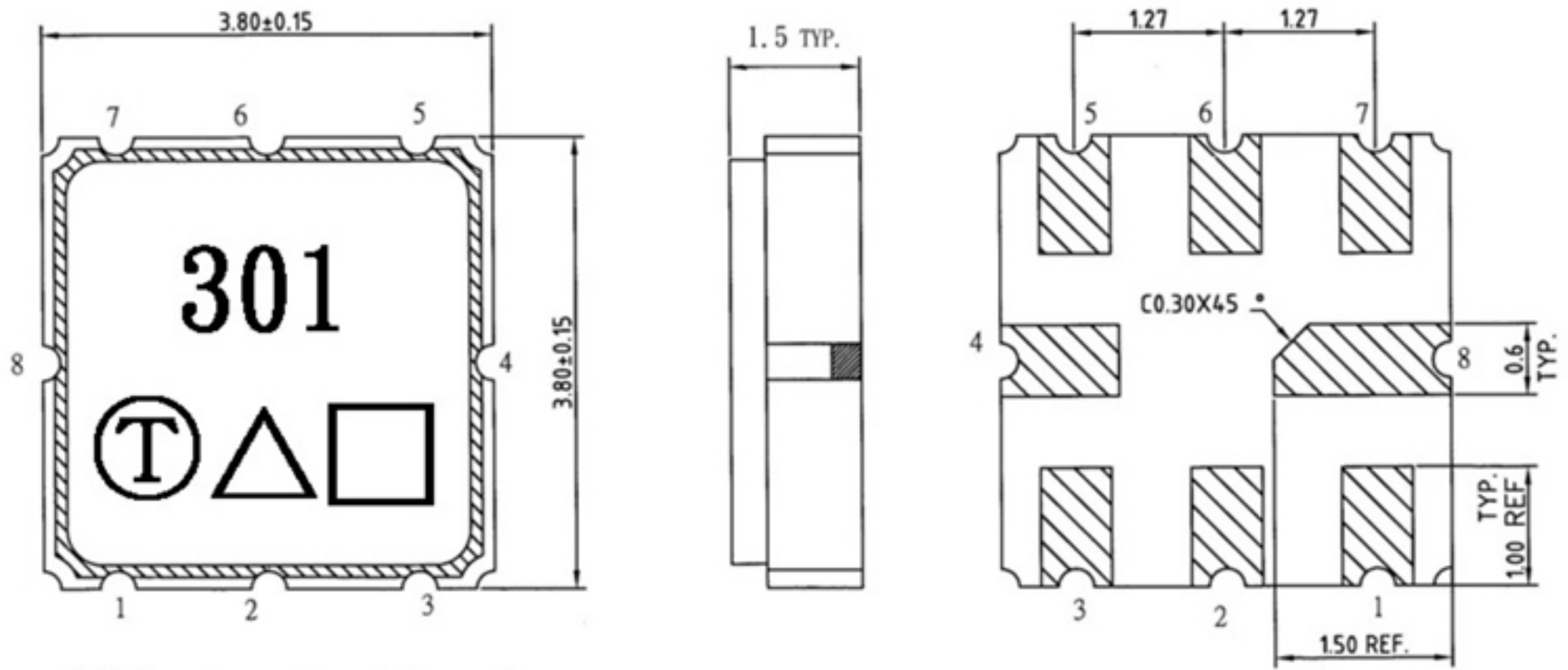
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D. OUTLINE DRAWING:



- #1 : Input or Input Ground
- #2 : Input Ground or Input
- #5 : Output
- #6 : Output Ground
- #4、8 : Case Ground
- #3、7 : Ground
- △ : Year code
- : Date code
- Unit : mm

Product / Year Code

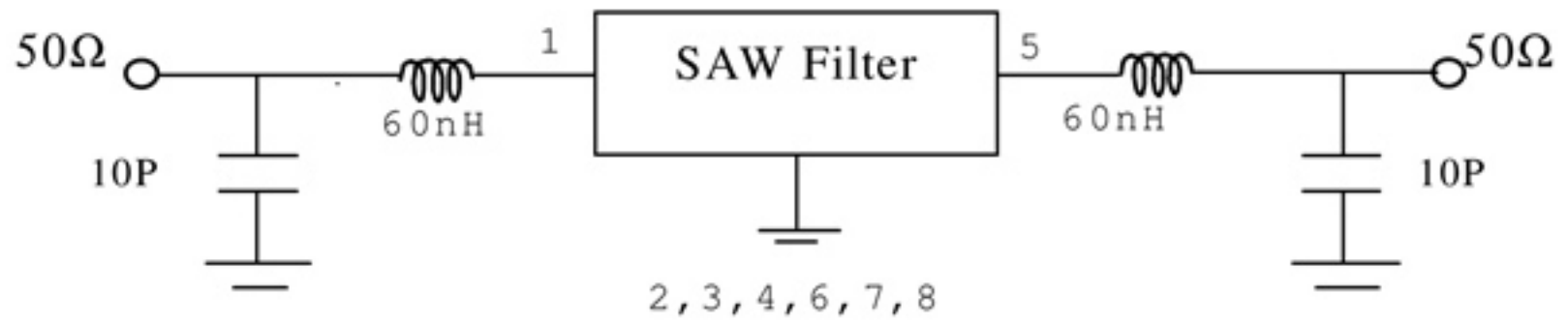
Year	2019 2021	2020 2022
Product Code	A	a

Week Code Table

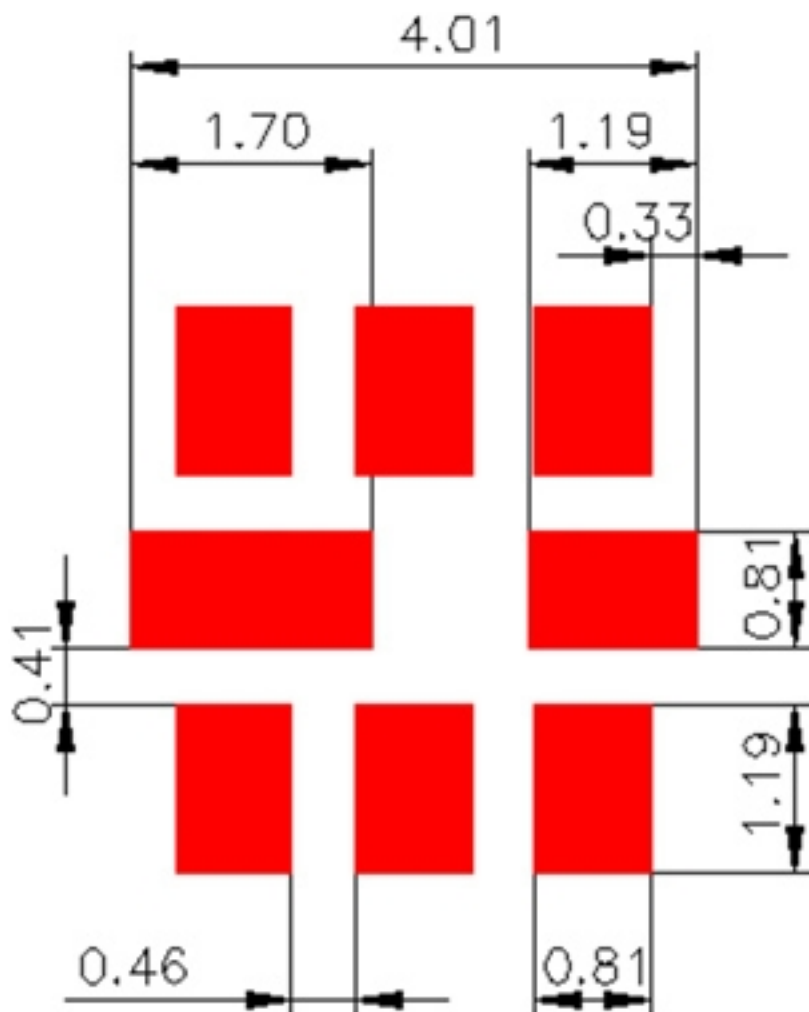
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. MEASUREMENT CIRCUIT:

HP Network analyzer

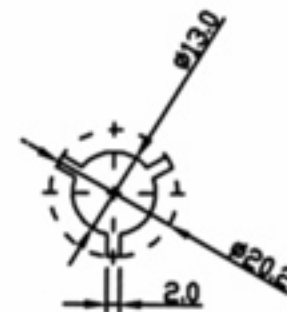
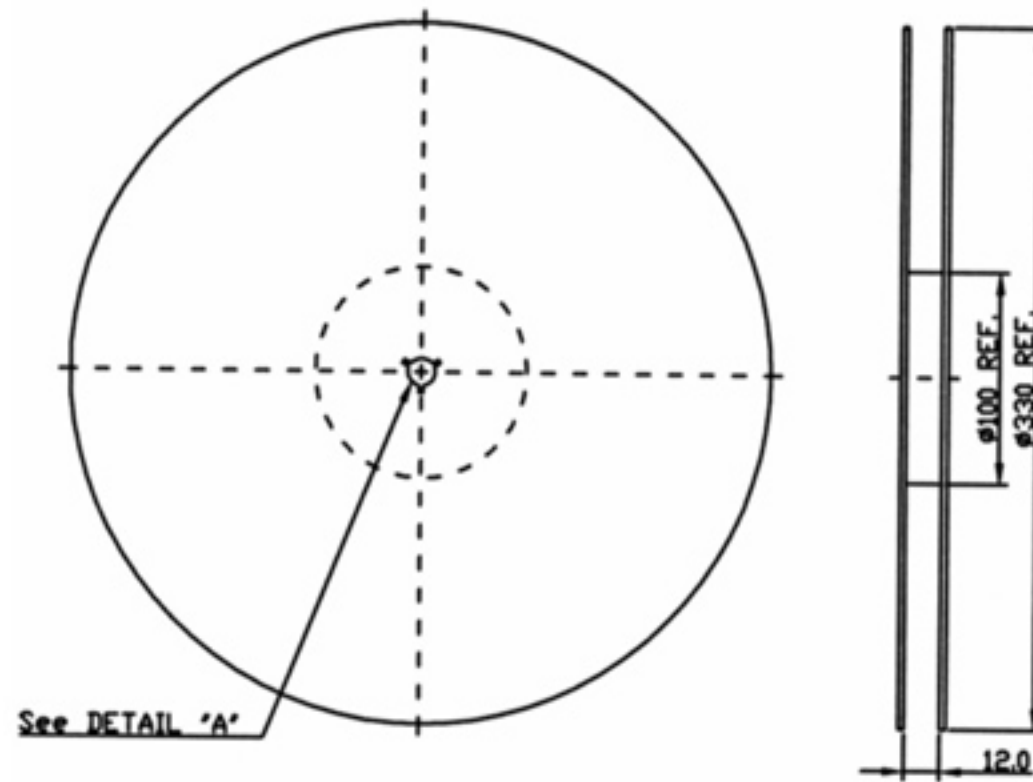


F. PCB FOOTPRINT:

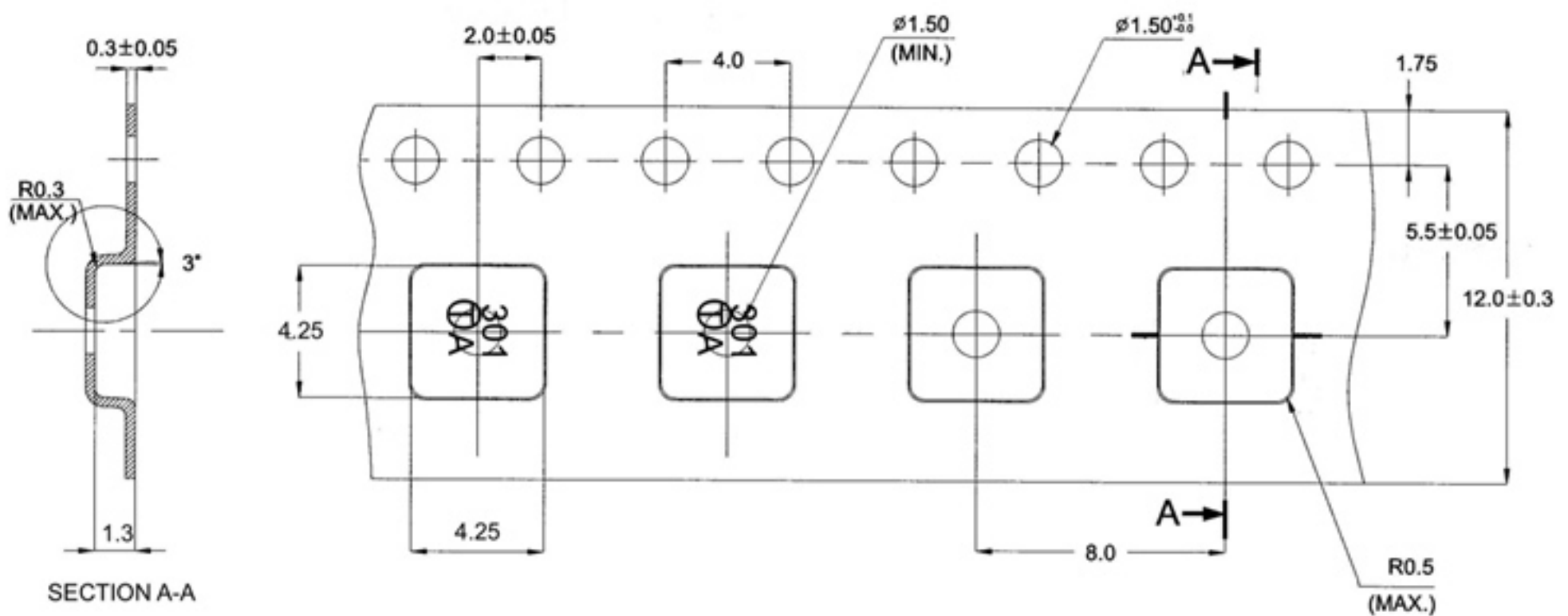


G. PACKING:

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.

