

1. PART NO. EXPRESSION :

SPS 5020 FT 4R7 M - □ □
 (a) (b) (c)(d) (e) (f) (g)

(a) Series code

(b) Dimension code

(c) Powder coating type

(d) Taping package

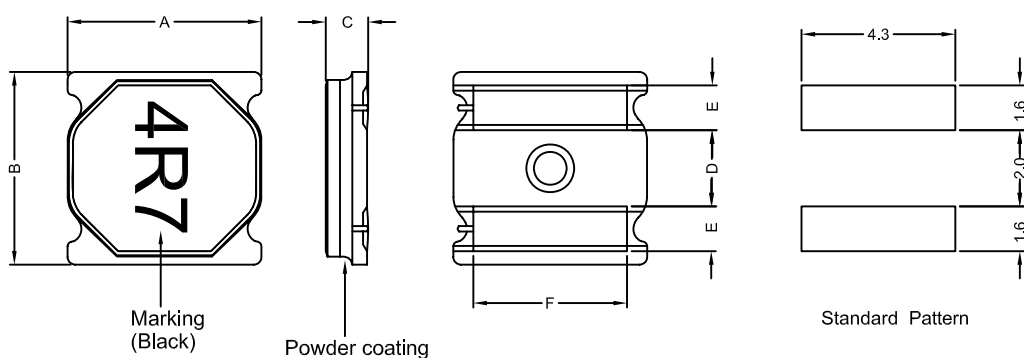
(e) Inductance code : 4R7= 4.7uH

(f) Tolerance code : M = $\pm 20\%$, N = $\pm 30\%$

(g) 10 : Standard

11 ~ 99 : Internal control number

2. CONFIGURATION & DIMENSIONS :



Unit:m/m

A	B	C	D	E	F
5.0 ± 0.2	5.0 ± 0.2	2.0 Max.	2.0 Typ.	1.1 Typ.	4.1 Typ.

3. MATERIALS :

(a) Core

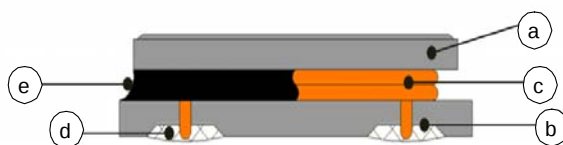
(b) Copper Foil

(c) Wire

(d) Solder

(e) Coating

(f) Ink



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4. GENERAL SPECIFICATION :

- a) IDC1 :Based on inductance change ($\Delta L/L_0 \leq -30\%$) @ ambient temp. 25°C
- b) IDC2 : Based on temperature rise (ΔT : 40°C TYP.)
- c) Rated DC Current : The less value which is IDC1 or IDC2.
- d) Operating temp. : -40°C to +125°C (include self temp. rise)
- e) Storage temperature range (on board) : -40° C to +105° C
- f) Storage condition (component in its packaging)
 - i) Temperature : -10 to 40° C
 - ii) Humidity : 60%

5. ELECTRICAL CHARACTERISTICS :

SWS Part No.	Inductance L(uH)	Tolerance	Test Frequency (Hz)	RDC (Ω) $\pm 20\%$	IDC1 (A)	IDC2 (A)	Marking
SPS5020FTR47□	0.47	N	0.1V/1M	15m	7.0	5.10	R47
SPS5020FT1R0□	1.0	N	0.1V/1M	25m	5.5	3.90	1R0
SPS5020FT1R2□	1.2	N	0.1V/1M	25m	5.0	3.90	1R2
SPS5020FT1R5□	1.5	N	0.1V/1M	30m	4.5	3.30	1R5
SPS5020FT2R2□	2.2	N	0.1V/1M	42m	3.6	2.80	2R2
SPS5020FT2R7□	2.7	N	0.1V/1M	53m	3.4	2.70	2R7
SPS5020FT3R3□	3.3	M,N	0.1V/1M	61m	3.2	2.50	3R3
SPS5020FT3R9□	3.9	N	0.1V/1M	74m	3.2	2.30	3R9
SPS5020FT4R7□	4.7	M	0.1V/1M	84m	2.9	2.10	4R7
SPS5020FT6R8□	6.8	M	0.1V/1M	0.10	2.3	1.70	6R8
SPS5020FT100□	10	M	0.1V/1M	0.14	1.8	1.45	100
SPS5020FT150□	15	M	0.1V/1M	0.22	1.5	1.10	150
SPS5020FT220□	22	M	0.1V/1M	0.32	1.3	0.87	220
SPS5020FT330□	33	M	0.1V/1M	0.50	1.0	0.65	330
SPS5020FT390□	39	M	0.1V/1M	0.57	0.9	0.58	390
SPS5020FT680□	68	M	0.1V/1M	0.93	0.7	0.48	680
SPS5020FT101□	100	M	0.1V/1M	1.37	0.6	0.45	101

Tolerance code □ : M = $\pm 20\%$, N = $\pm 30\%$



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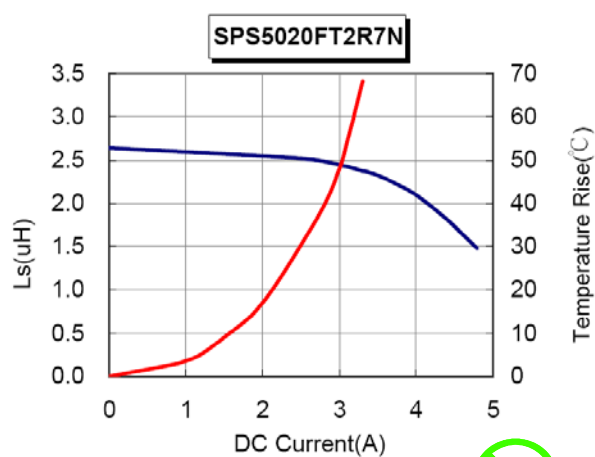
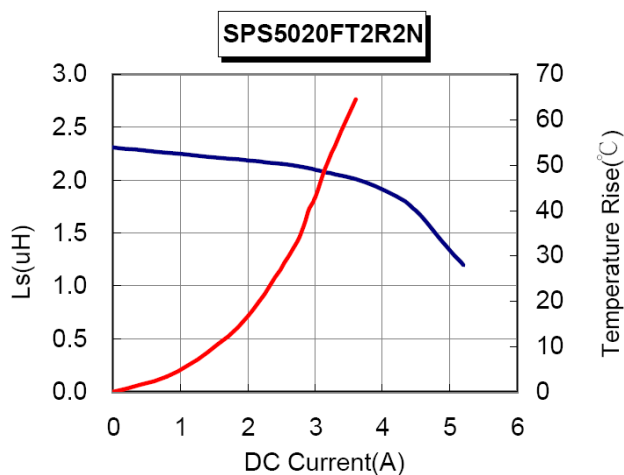
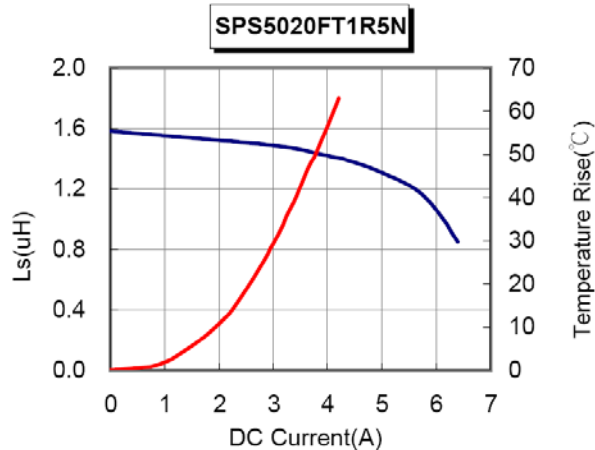
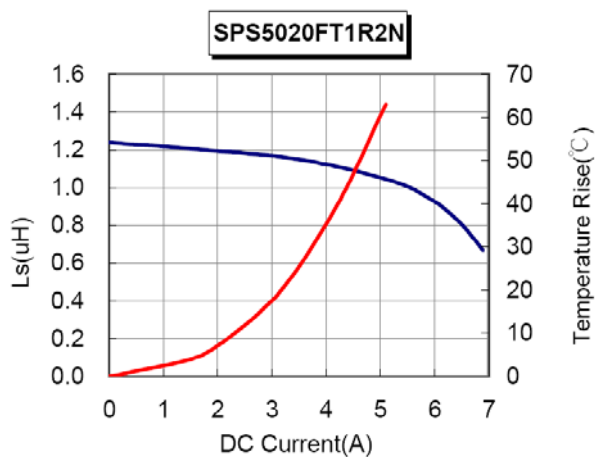
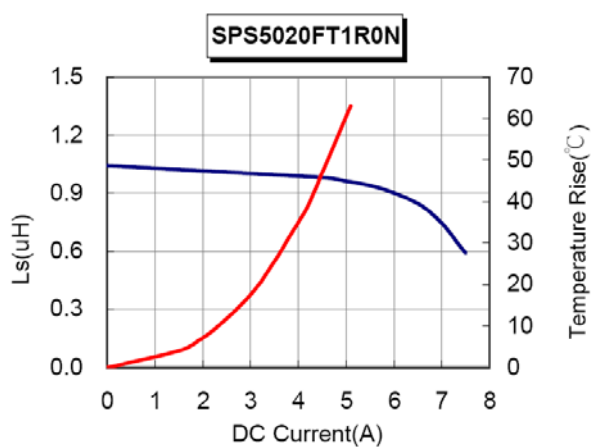
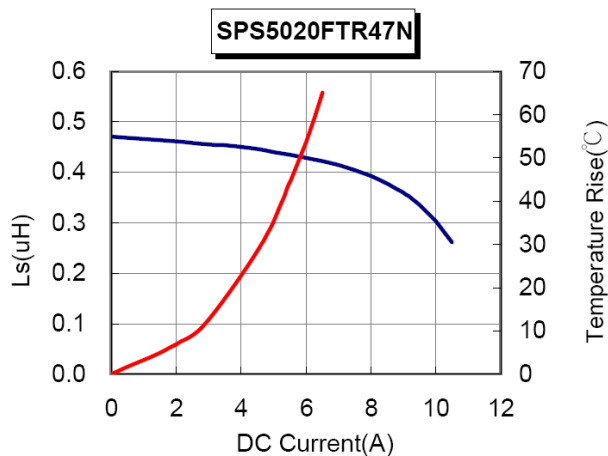


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6. TYPICAL ELECTRICAL CHARACTERISTICS :

6.1 INDUCTANCE / TEMPERATURE vs. DC CURRENT



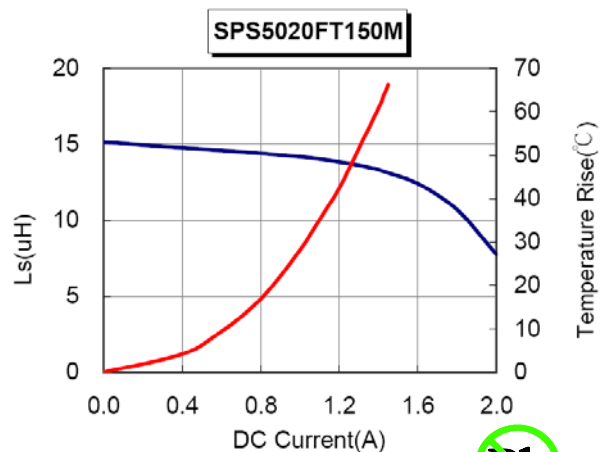
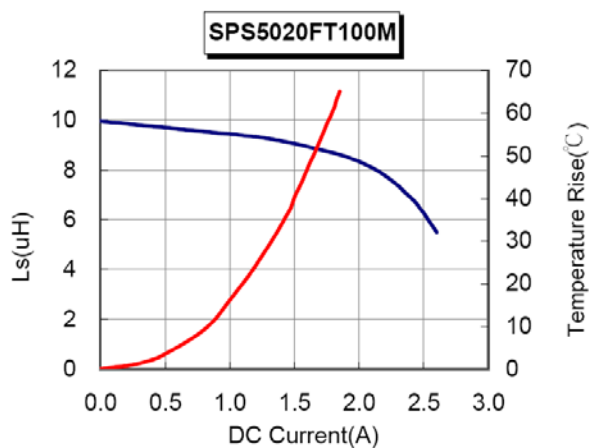
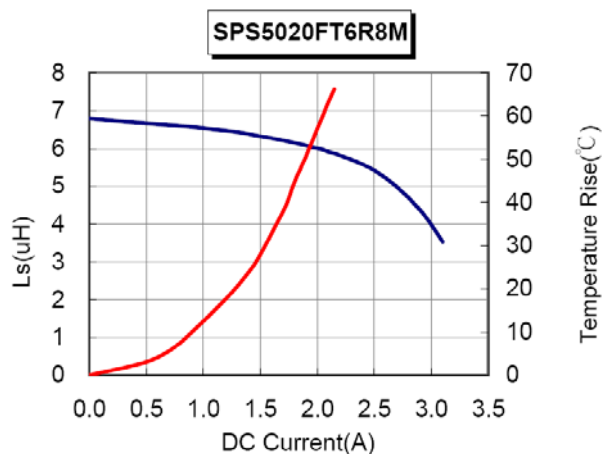
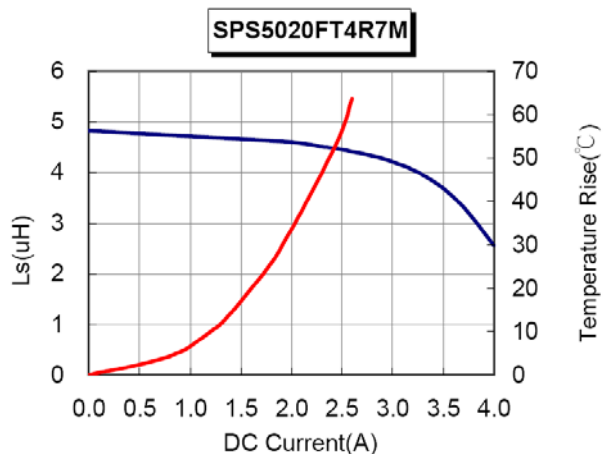
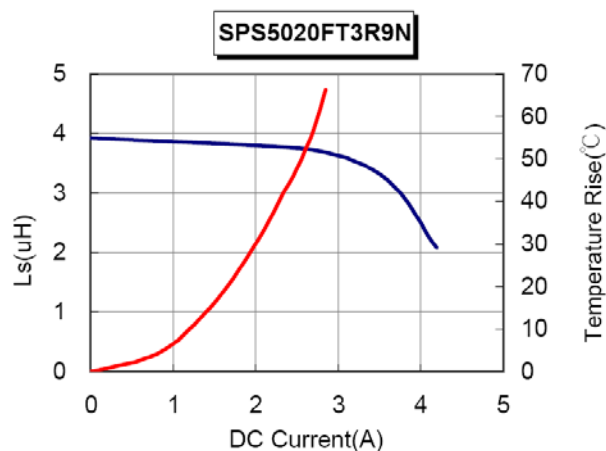
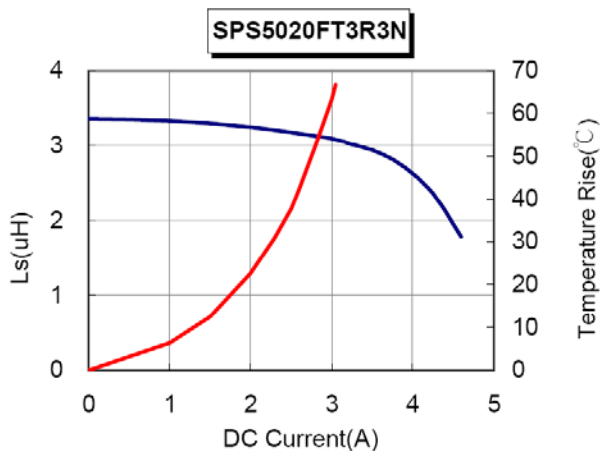
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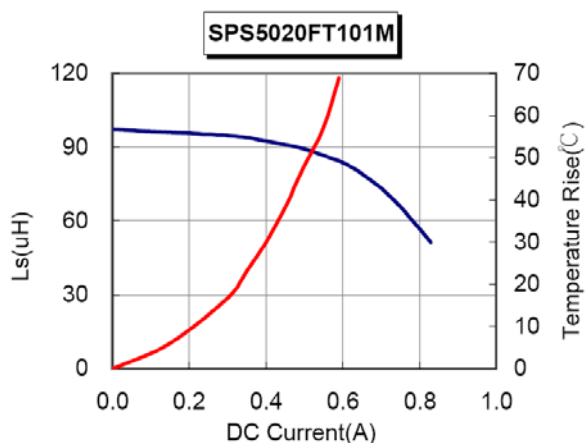
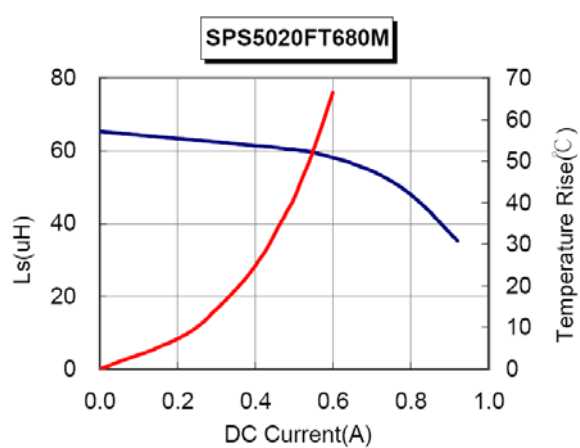
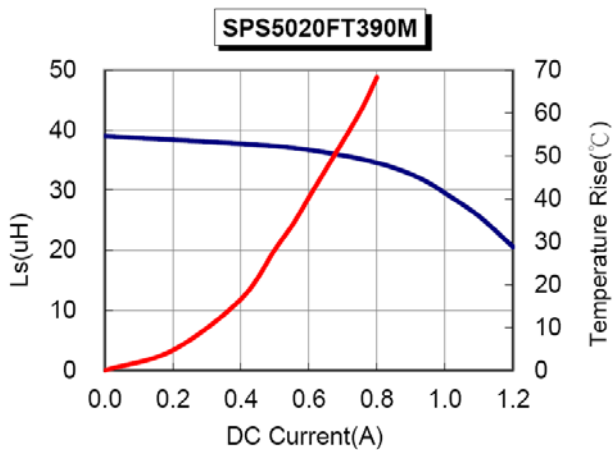
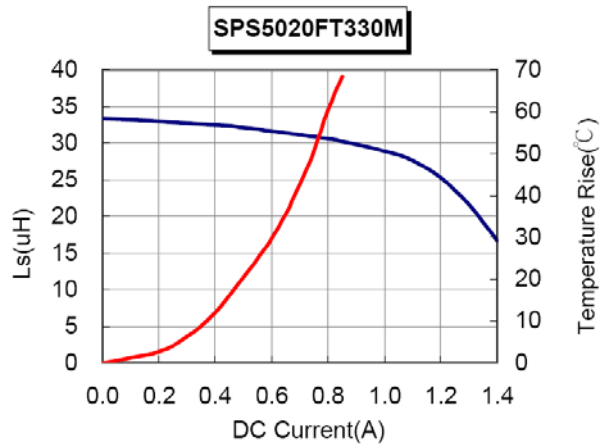
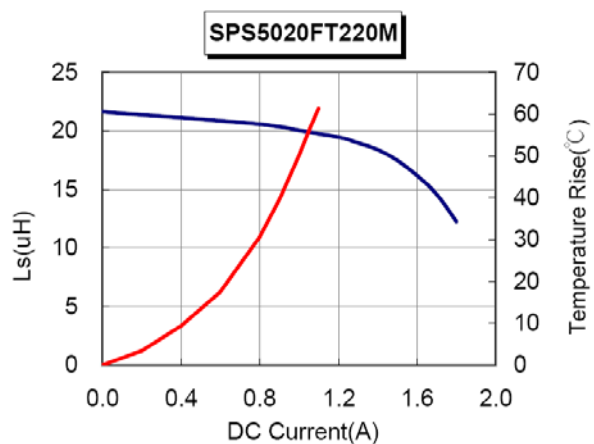
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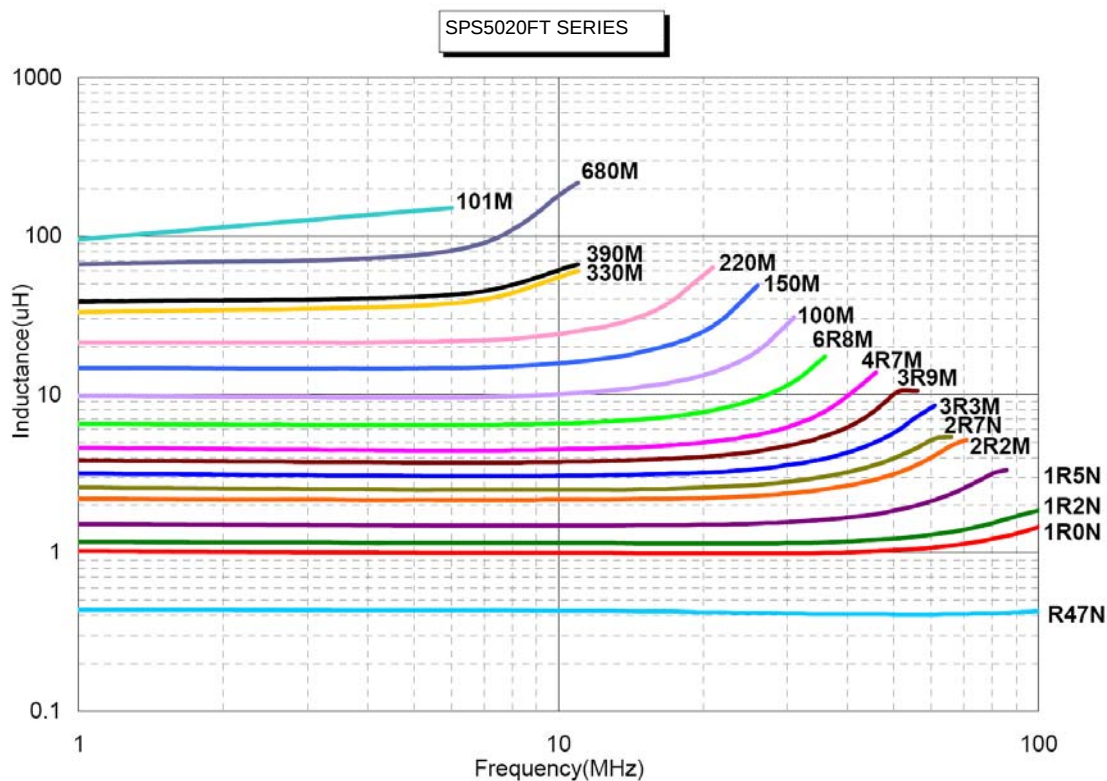
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6.2 INDUCTANCE vs. FREQUENCY



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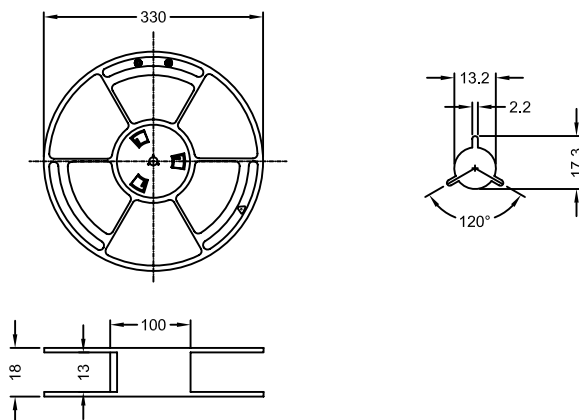
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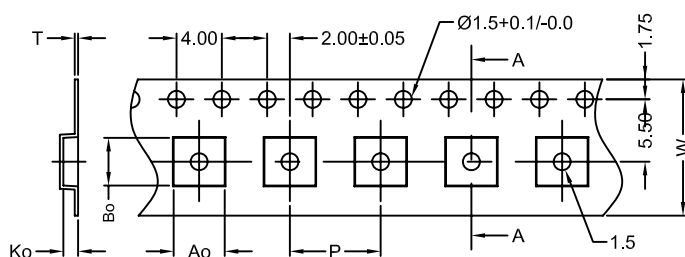
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7. PACKAGING INFORMATION :

7-1. Reel Dimension (mm)

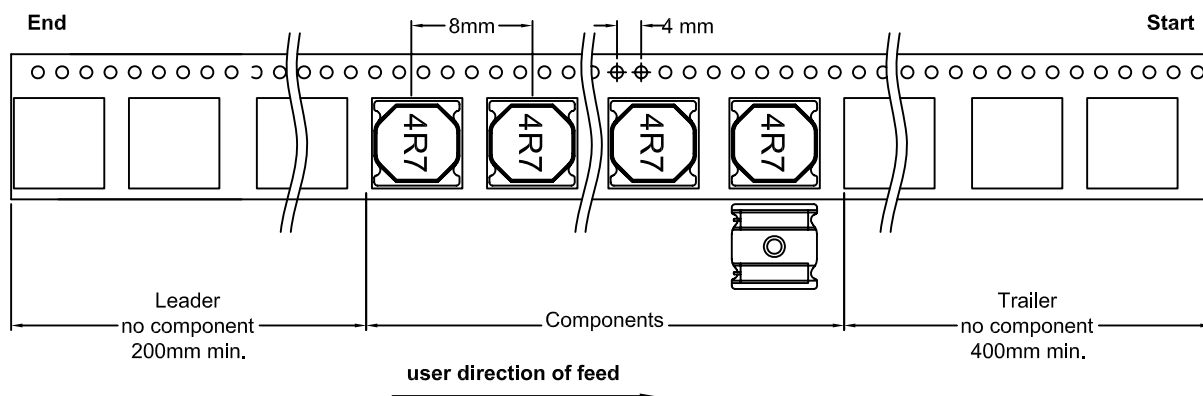


7-2 CARRIER TAPE DIMENSIONS (mm)



Ao	Bo	Ko	W	P	T
5.5mm	5.35mm	2.4mm	12mm	8.0mm	0.3mm

7-3 TAPING DIMENSIONS (mm)



7-4 QUANTITY

3000pcs/Reel

The products are packaged so that no damage will be sustained.



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