

1. PART NO. EXPRESSION :

SPS5012FT1R0N-□□
(a) (b) (c)(d) (e) (f) (g)

(a) Series code

(b) Dimension code

(c) Powder coating type

(d) Taping package

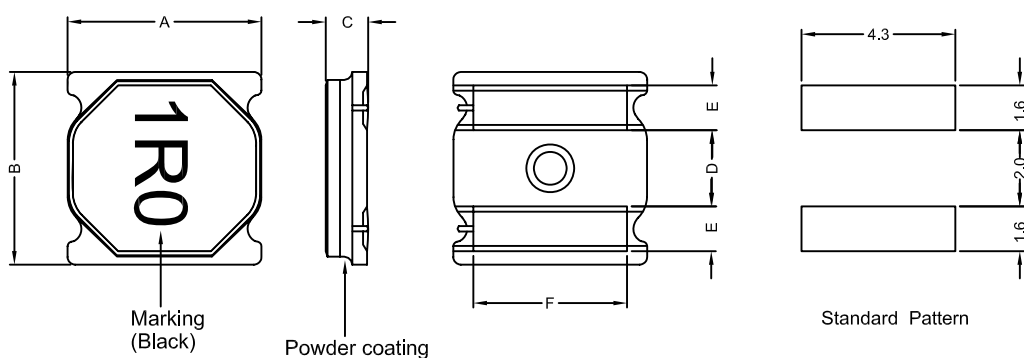
(e) Inductance code : 1R0= 1.0uH

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

(g) 10 : Standard

11 ~ 99 : Internal control number

2. CONFIGURATION & DIMENSIONS :

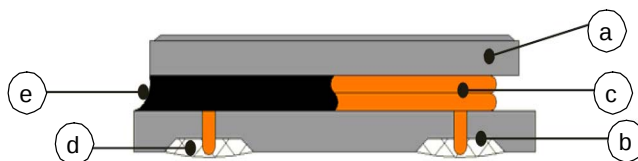


Unit:m/m

A	B	C	D	E	F
5.0 ± 0.2	5.0 ± 0.2	1.2 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)	Test Frequency (Hz)	RDC (Ω) $\pm 20\%$	Rated DC Current		Marking
				IDC1(A)	IDC2 (A)	
SPS5012FTR47N	0.47 $\pm 30\%$	0.1V/1M	53m	5.2	2.60	R47
SPS5012FT1R0N	1.0 $\pm 30\%$	0.1V/1M	70m	3.7	2.20	1R0
SPS5012FT1R5N	1.5 $\pm 30\%$	0.1V/1M	85m	3.0	2.00	1R5
SPS5012FT2R2N	2.2 $\pm 30\%$	0.1V/1M	85m	2.5	2.00	2R2
SPS5012FT3R3N	3.3 $\pm 30\%$	0.1V/1M	0.16	2.0	1.45	3R3
SPS5012FT4R7M	4.7 $\pm 20\%$	0.1V/1M	0.23	1.7	1.25	4R7
SPS5012FT6R8M	6.8 $\pm 20\%$	0.1V/1M	0.30	1.2	1.10	6R8
SPS5012FT100M	10 $\pm 20\%$	0.1V/1M	0.43	1.1	0.90	100
SPS5012FT150M	15 $\pm 20\%$	0.1V/1M	0.62	0.9	0.75	150
SPS5012FT220M	22 $\pm 20\%$	0.1V/1M	0.84	0.65	0.55	220
SPS5012FT330M	33 $\pm 20\%$	0.1V/1M	1.46	0.56	0.50	330
SPS5012FT470M	47 $\pm 20\%$	0.1V/1M	1.90	0.50	0.40	470



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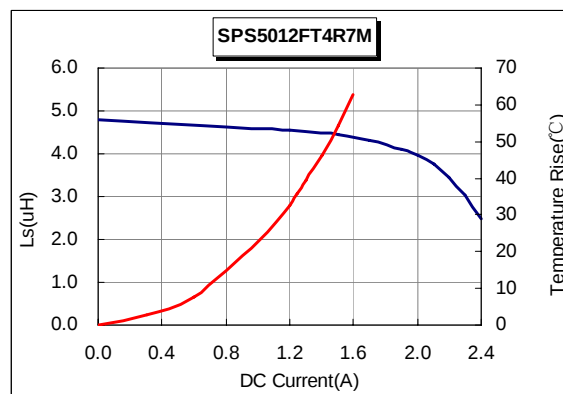
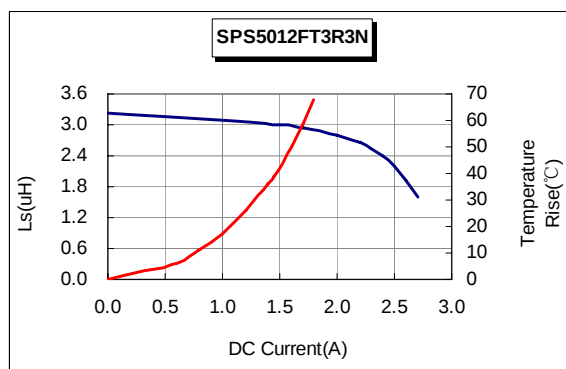
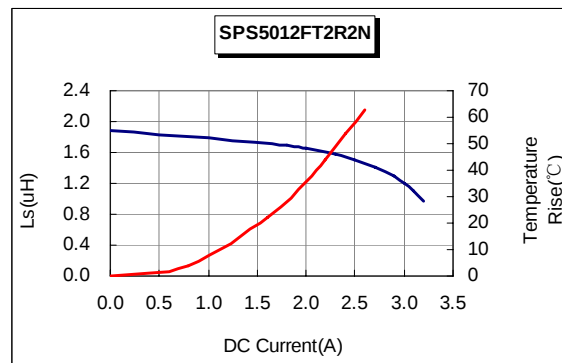
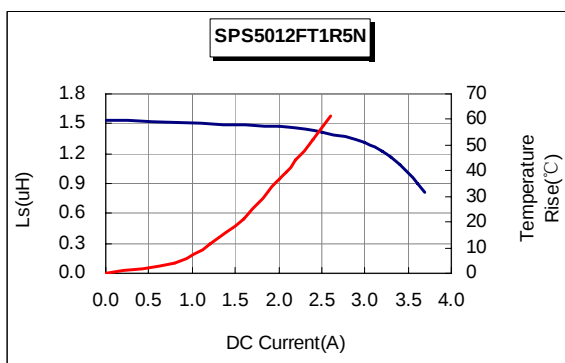
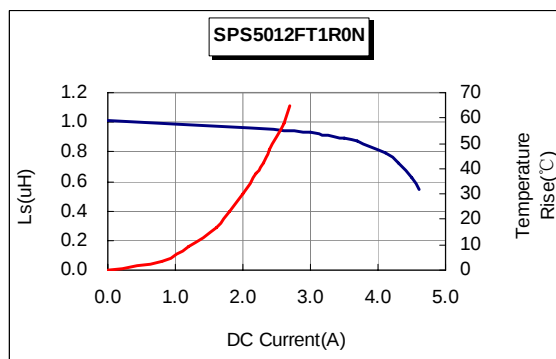
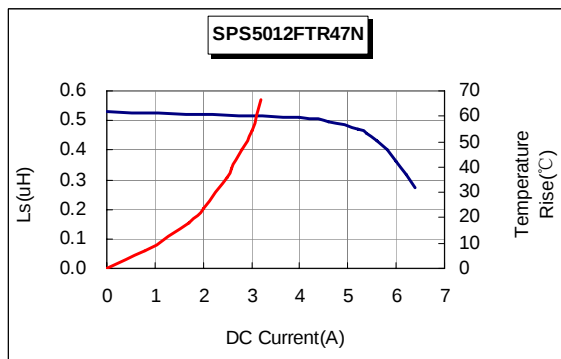
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6. CHARACTERISTICS CURVES :

6.1 INDUCTANCE / TEMPERATURE vs. DC CURRENT



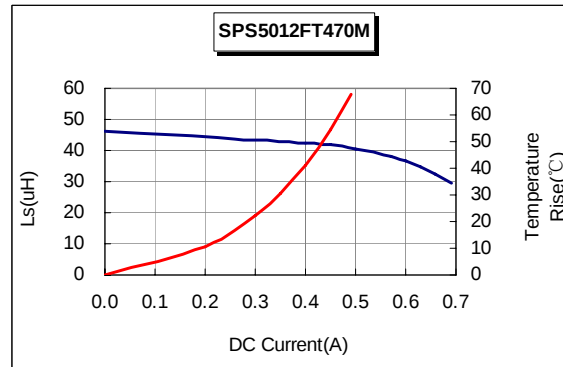
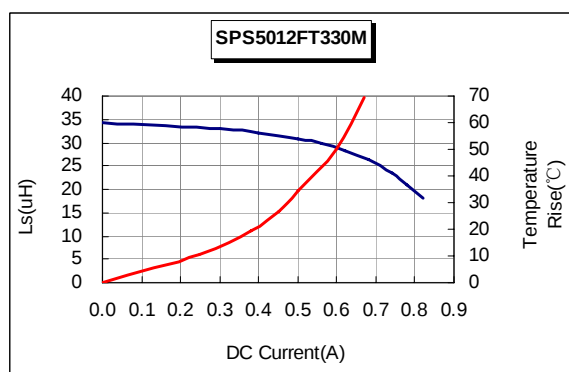
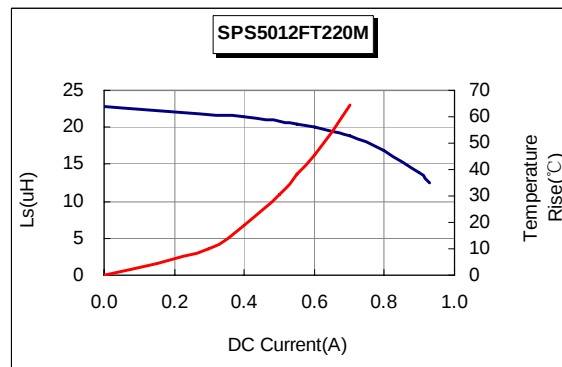
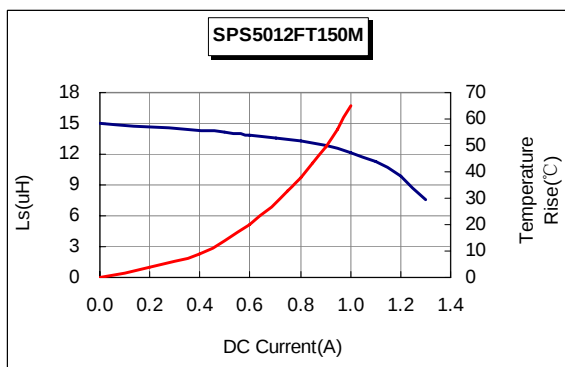
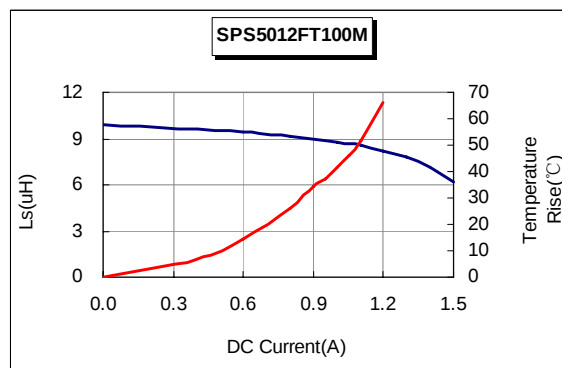
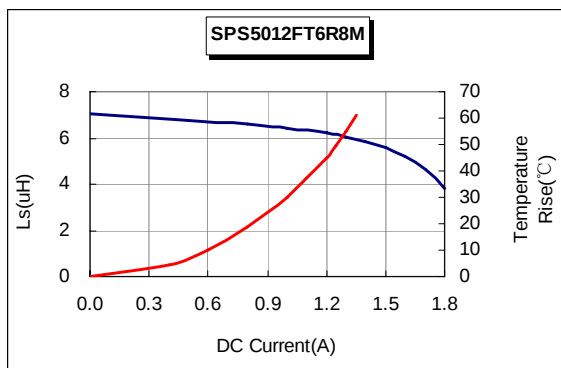
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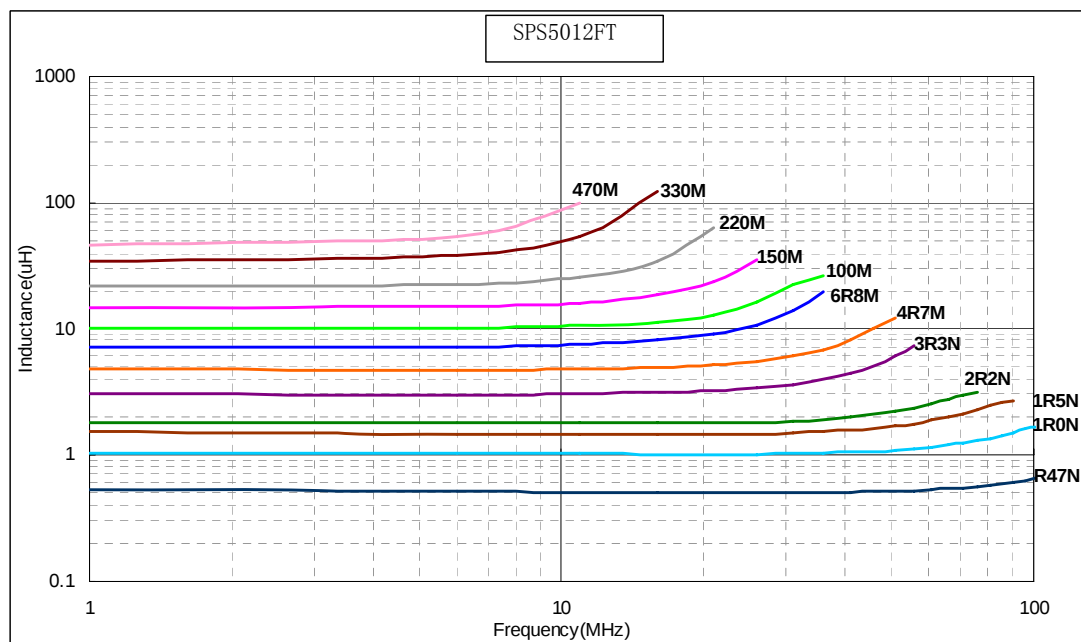
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6.2 INDUCTANCE vs. FREQUENCY



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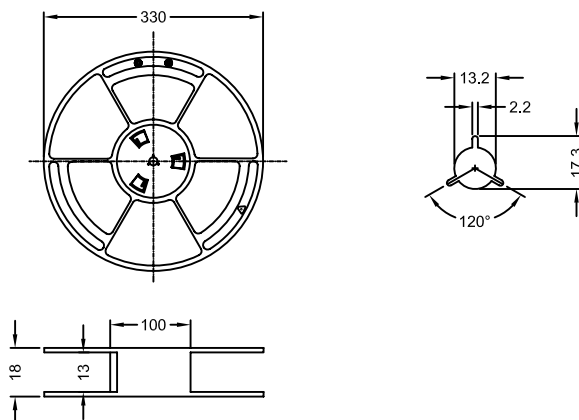
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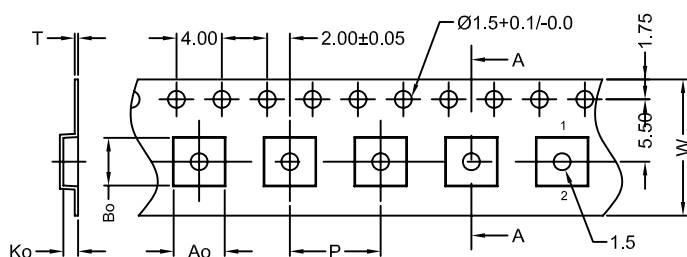
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7. PACKAGING INFORMATION :

7-1. Reel Dimension (mm)

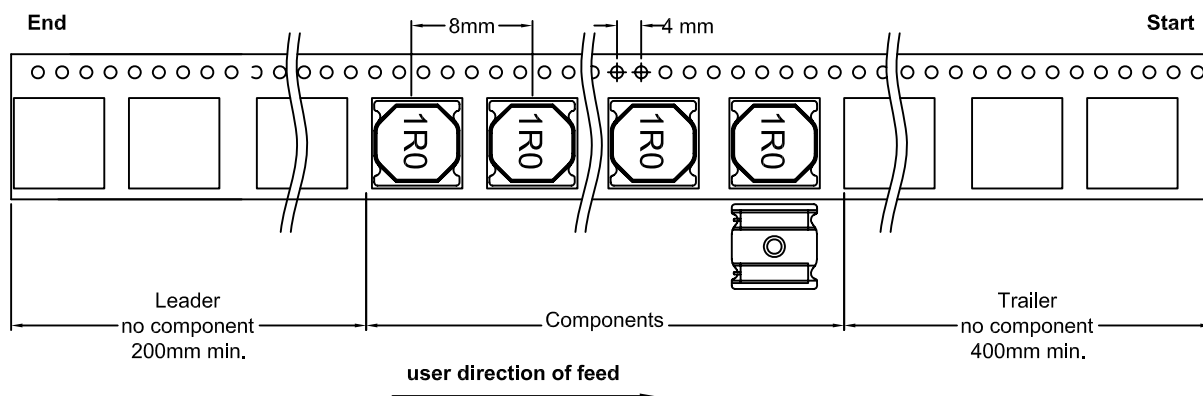


7-2 CARRIER TAPE DIMENSIONS (mm)



Ao	Bo	Ko	W	P	T
5.5mm	5.35mm	1.55mm	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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