Low Profile Power Inductors

SPC4018FT SERIES

1. PART NO. EXPRESSION :

S P C 4 0 1 8 F T 3 R 3 N Z F - □□

(a) (b) (c)(d) (e) (f)(g)(h) (i)

(a) Series code

(b) Dimension code

(c) Powder coating type

(d) Taping package

(e) Inductance code : 3R3= 3.3uH

(f) Tolerance code : M=±20%, N=±30%

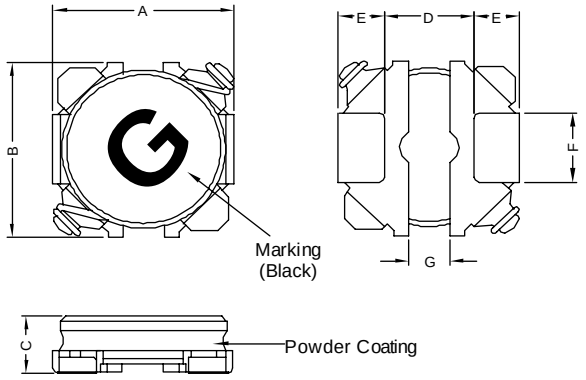
(g) Z : Standard Part

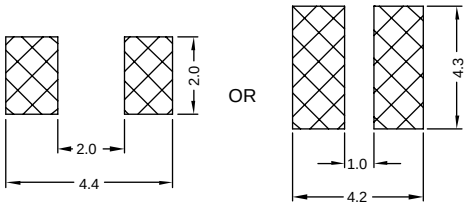
(h) F : RoHS Compliant

(i) 10: Standard

11 ~ 99 : Internal control number

2. CONFIGURATION & DIMENSIONS :





Recommended PCB Pattern

Unit:m/m

A	B	C	D	E	F	G
4.0±0.2	3.9±0.2	1.8 Max.	2.1±0.2	0.96±0.1	1.6±0.15	1.1±0.15

3. MATERIALS :

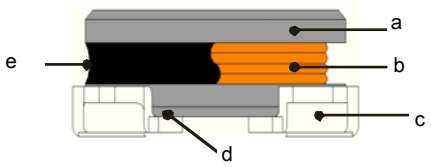
(a) Core

(b) Wire

(c) Clip

(d) Epoxy Resin

(e) Powder Coating



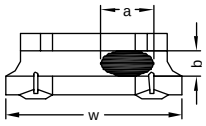
Exposed wire tolerance limit of coating resin part on product side.

1. Width direction（dimension a）: Acceptable when a≦w/2

   Nonconforming when a＞w/2

2. Length direction（dimension b）: Dimension b is not specified.

3. The total expose wire area of each side should not be more than 50% of the coating resin area.



RoHS Compliant

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16.10.2014

4. GENERAL SPECIFICATION :

a) ISAT : Based on inductance change (ΔL/Lo :≦-30%) @ ambient temp. 25℃

b) IRMS : Based on temperature rise (ΔT : 40℃ TYP.)

c) Operate temperature range : -40° C to +125° C (include self temp. rise)

d) Storage temperature range (on board) : -40° C to +105° C

e) Storage condition (component in its packaging)

i) Temperature : -10 to 40° C

ii) Humidity : 60%

5. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (uH)	Tolerance	Test Frequency (Hz)	Resistance RDC (Ω)±20%	Rated DC Current		Marking
					ISAT (A)	IRMS (A)	
SPC4018FTR56□ZF	0.56	N	100kHz,0.1V / 1MHz,0.1V	41m	5.50	1.95	7
SPC4018FT1R0□ZF	1.0	N	100kHz,0.1V / 1MHz,0.1V	50m	4.70	1.85	A
SPC4018FT1R2□ZF	1.2	N	100kHz,0.1V / 1MHz,0.1V	60m	4.20	1.70	B
SPC4018FT1R5□ZF	1.5	M,N	100kHz,0.1V / 1MHz,0.1V	60m	3.70	1.70	C
SPC4018FT1R8□ZF	1.8	N	100kHz,0.1V / 1MHz,0.1V	65m	3.40	1.65	D
SPC4018FT2R2□ZF	2.2	M,N	100kHz,0.1V / 1MHz,0.1V	74m	3.20	1.60	E
SPC4018FT2R7□ZF	2.7	M,N	100kHz,0.1V / 1MHz,0.1V	92m	2.90	1.50	F
SPC4018FT3R3□ZF	3.3	M,N	100kHz,0.1V / 1MHz,0.1V	97m	2.70	1.45	G
SPC4018FT3R9□ZF	3.9	N	100kHz,0.1V / 1MHz,0.1V	0.11	2.40	1.36	H
SPC4018FT4R7□ZF	4.7	M	100kHz,0.1V / 1MHz,0.1V	0.12	2.20	1.30	I
SPC4018FT5R6□ZF	5.6	M	100kHz,0.1V / 1MHz,0.1V	0.16	2.00	1.20	J
SPC4018FT6R8□ZF	6.8	M	100kHz,0.1V / 1MHz,0.1V	0.17	1.80	1.15	K
SPC4018FT100□ZF	10	M	100kHz,0.1V / 1MHz,0.1V	0.24	1.50	1.00	M
SPC4018FT150□ZF	15	M	100kHz,0.1V / 1MHz,0.1V	0.35	1.20	0.83	O
SPC4018FT220□ZF	22	M	100kHz,0.1V / 1MHz,0.1V	0.49	1.00	0.63	Q
SPC4018FT330□ZF	33	M	100kHz,0.1V / 1MHz,0.1V	0.72	0.82	0.53	S
SPC4018FT470□ZF	47	M	100kHz,0.1V / 1MHz,0.1V	1.17	0.75	0.49	U
SPC4018FT101□ZF	100	M	100kHz,0.1V / 1MHz,0.1V	2.17	0.45	0.28	Y

Tolerance code □ : M=±20%, N=±30%

RoHS Compliant

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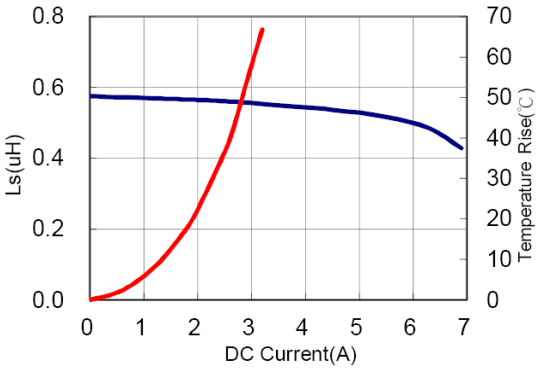
6. ELECTRICAL CHARACTERISTICS :

6-1. INDUCTANCE / TEMPERATURE vs. DC CURRENT

SPC4018FTR56NZF



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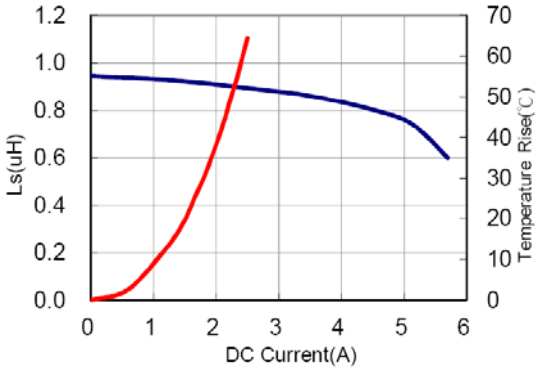

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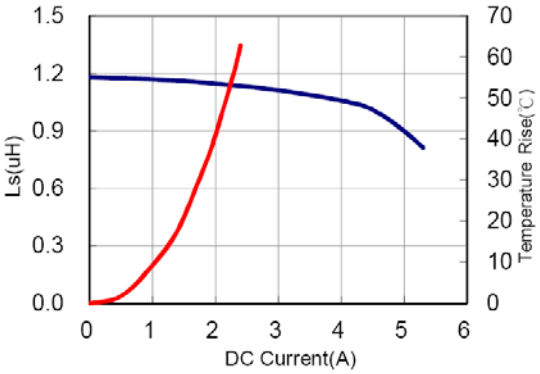

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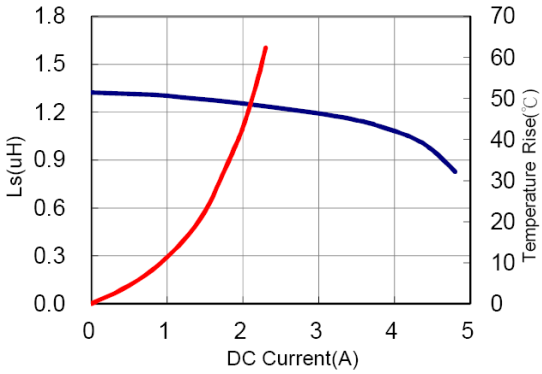

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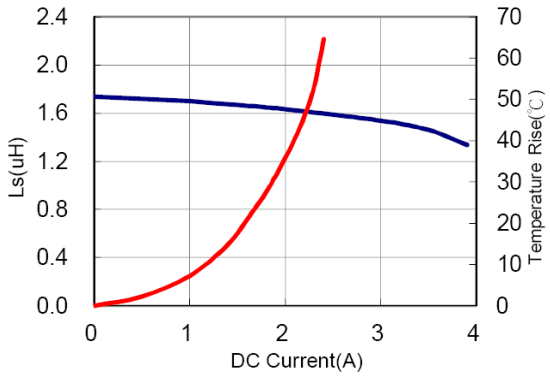

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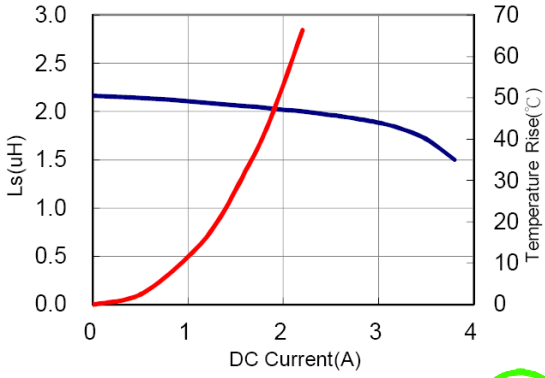

Pb

RoHS Compliant

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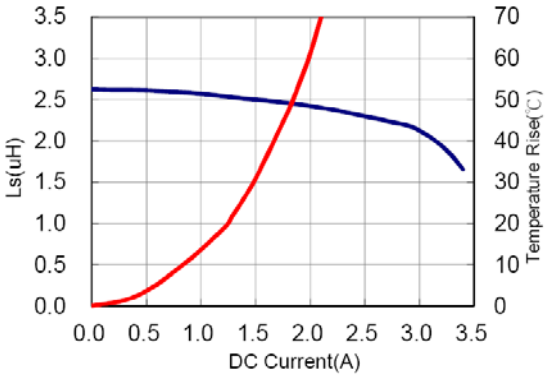

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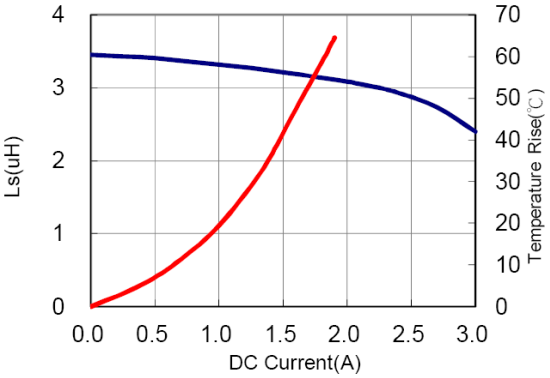

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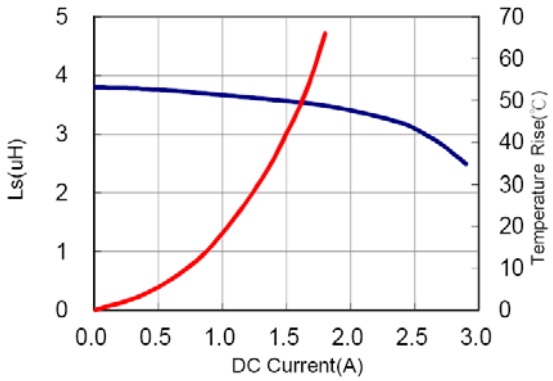

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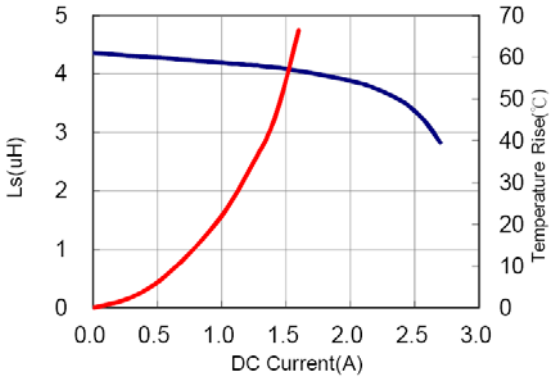

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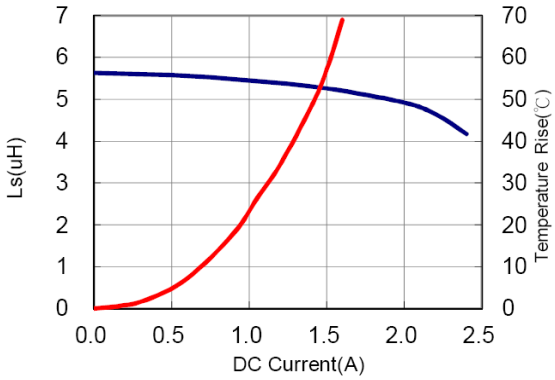

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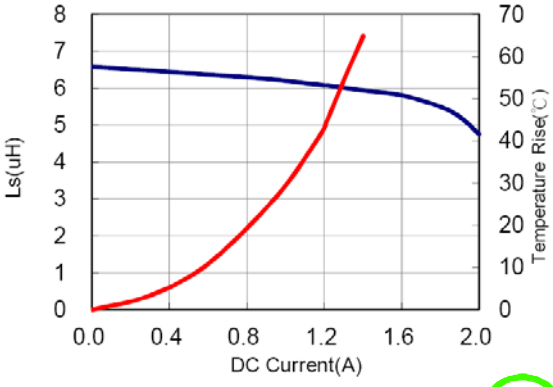

Pb

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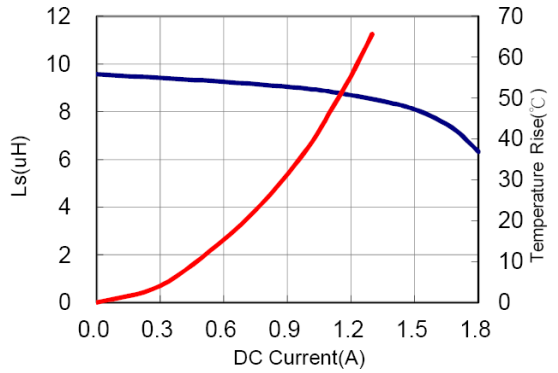

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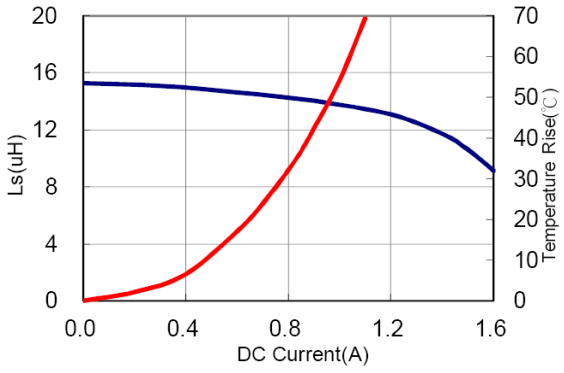

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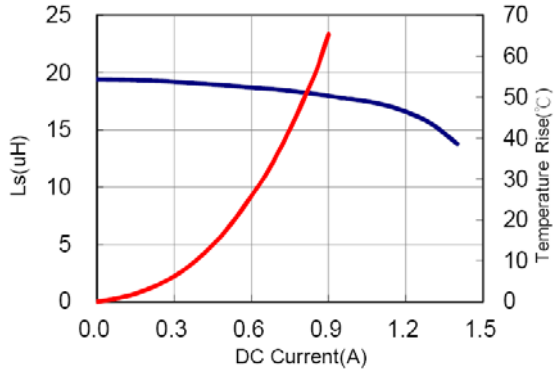

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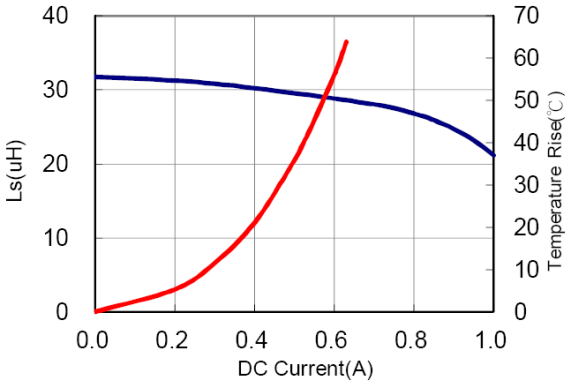

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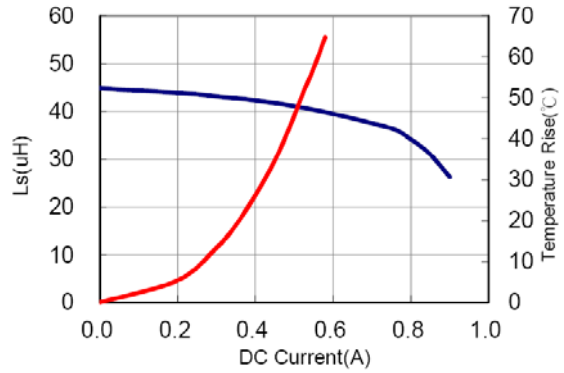

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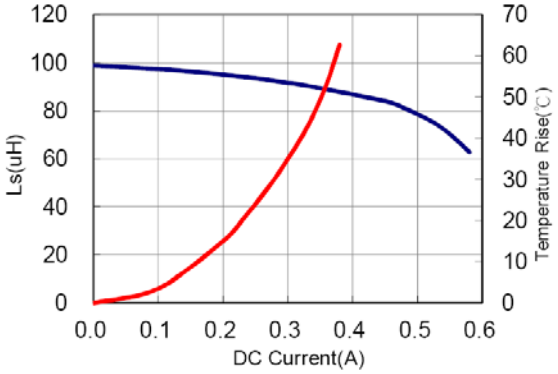

RoHS Compliant

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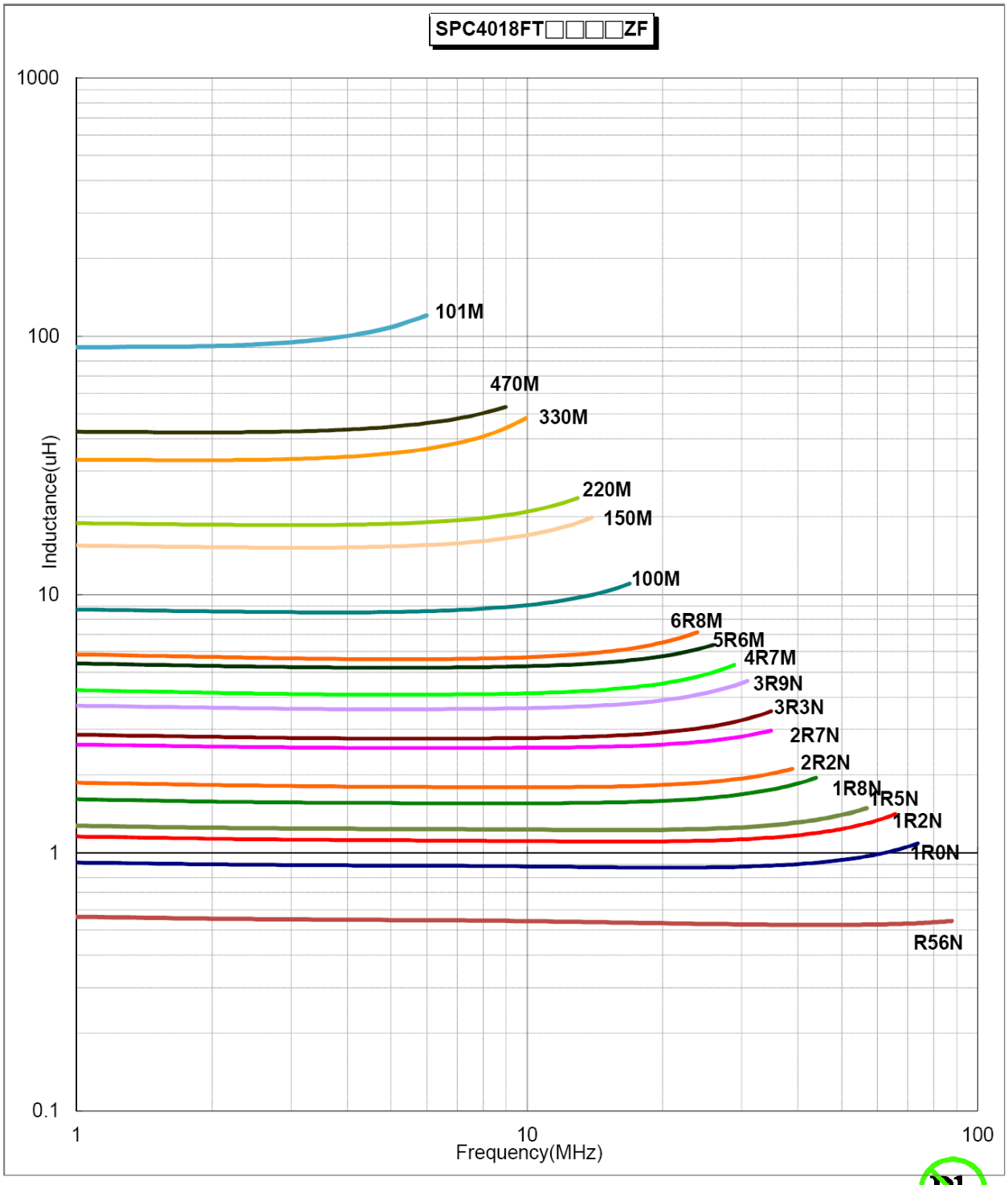
6-2. L vs. FREQUENCY



RoHS Compliant

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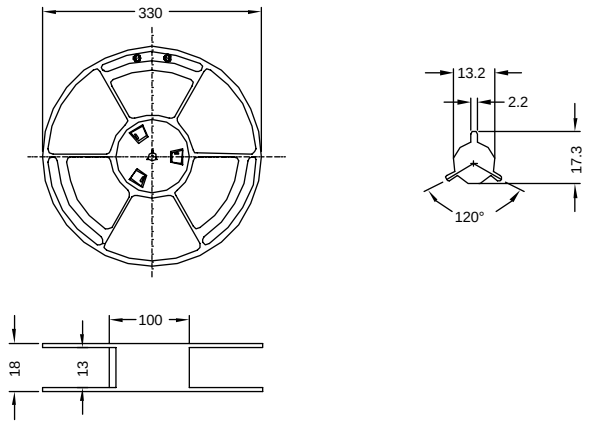
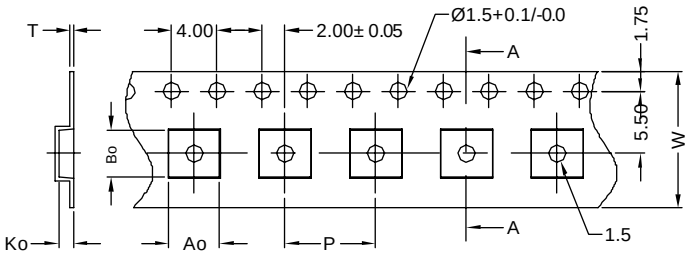
8. PACKAGING INFORMATION :

8-1. Reel Dimension (mm)

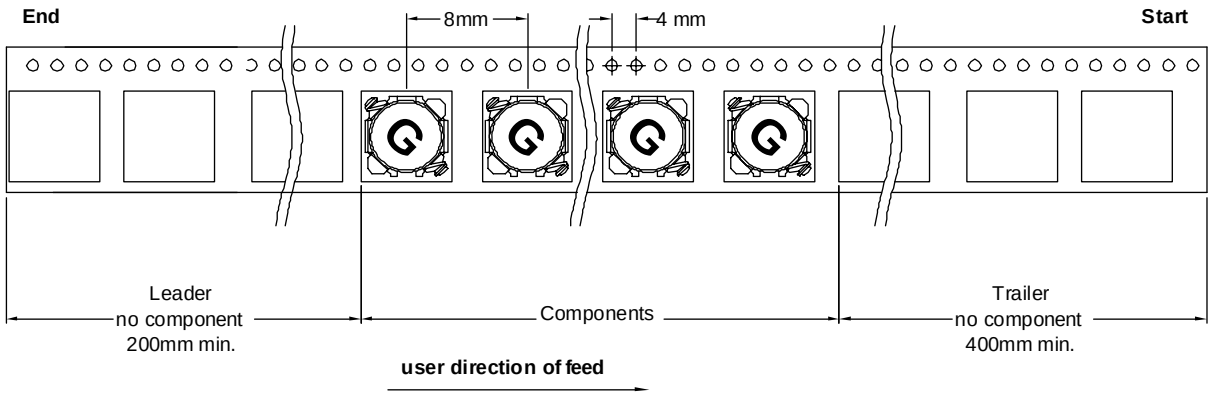


8-2 CARRIER TAPE DIMENSIONS (mm)



Ao	Bo	Ko	W	P	T
4.5mm	4.35mm	2.2mm	12mm	8.0mm	0.3mm

8-3 TAPING DIMENSIONS (mm)



8-4 QUANTITY

3000pcs/Reel

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

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