SLPS Series

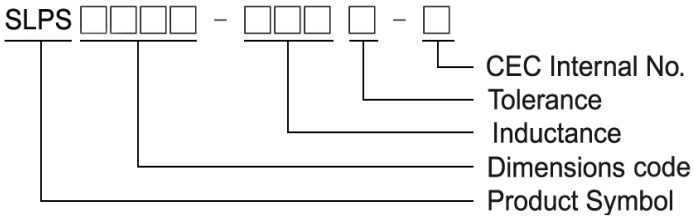
Features

- RoHS compliant
- Very low DCR; excellent current handling
- These are compact inductors for power line, considerably smaller compared to inductors with comparable characteristics.
- They feature low coil resistance, making them suitable for large currents.

Applications

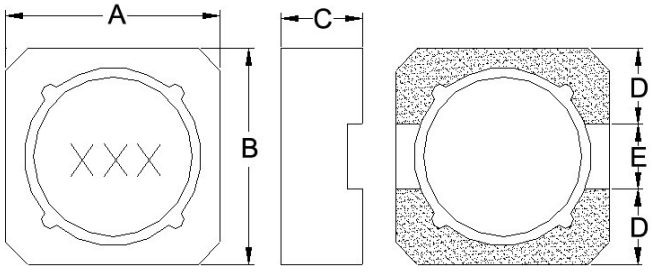
- Hard disk drives and DSCs.
- NB, LCD TV, Monitor.
- Portable communication equipment.
- DC / DC converters, etc.

Product Identification



- EX:SLPS5020-100M-N

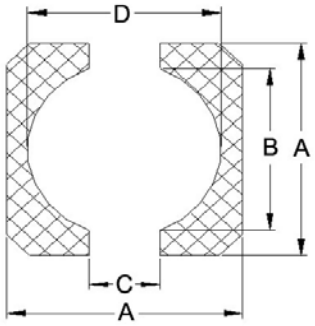
Shapes and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
SLPS4018	4.0±0.2	4.0±0.2	1.8Max.	1.10Typ.	1.80Typ.
SLPS4025	4.0±0.2	4.0±0.2	2.5Max.	1.10Typ.	1.80Typ.
SLPS5020	5.0±0.2	5.0±0.2	2.0Max.	1.75Typ.	1.50Typ.

Recommended Pattern



Dimensions in mm

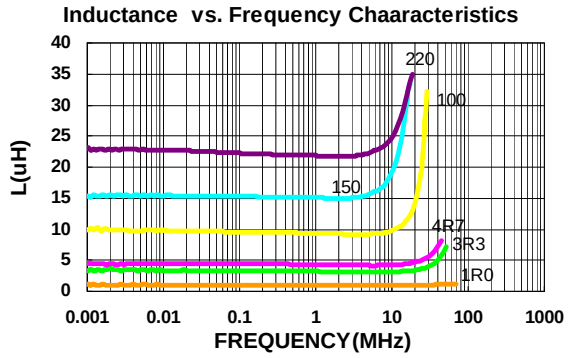
TYPE	A	B	C	D
SLPS4018	4.4	2.4	1.6	3.4
SLPS4025	4.4	2.4	1.6	3.4
SLPS5020	5.3	3.4	1.4	3.7

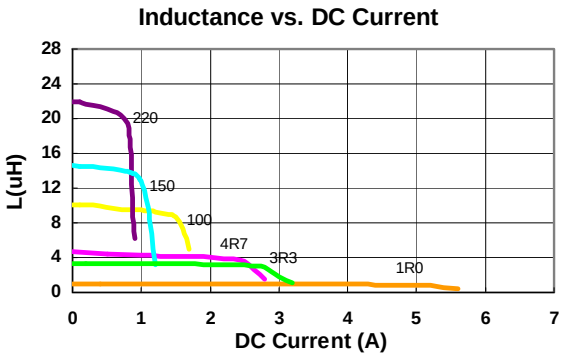
Standard Specifications

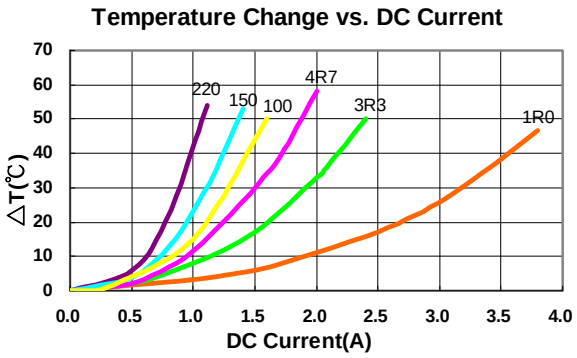
Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	D.C.R (mΩ)Max.	Isat (A)	Irms (A)
SLPS4018-1R0T-N	1.0	30	100	42	3.90	3.20
SLPS4018-1R8T-N	1.8	30	100	60	2.90	3.00
SLPS4018-2R2T-N	2.2	30	100	70	2.80	2.30
SLPS4018-3R3T-N	3.3	30	100	80	2.00	1.90
SLPS4018-4R7T-N	4.7	30	100	125	1.70	1.60
SLPS4018-100M-N	10	20	100	220	1.30	1.25
SLPS4018-150M-N	15	20	100	260	0.86	1.00
SLPS4018-220M-N	22	20	100	360	0.74	0.90

Test Freq.(L): 100KHz , 1V

- Tolerance: M = ±20% , T = ±30%
- Isat: Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Rated DC Current： The less value whith is Isat or Irms.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY







CHILISIN ELECTRONICS CORP.

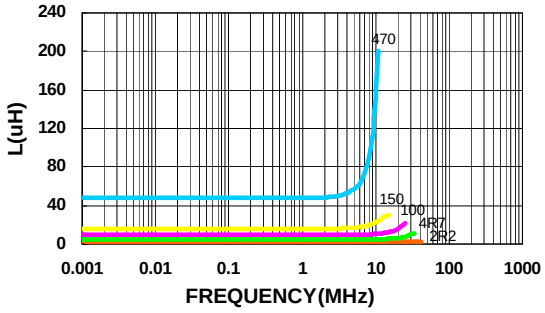
Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	D.C.R (mΩ)Max.	Isat (A)	Irms (A)
SLPS4025-2R2T-N	2.2	30	100	43	1.90	3.15
SLPS4025-3R3M-N	3.3	20	100	60	1.80	2.45
SLPS4025-4R7M-N	4.7	20	100	62	1.57	2.45
SLPS4025-100M-N	10	20	100	136	1.00	1.58
SLPS4025-150M-N	15	20	100	185	0.88	1.20
SLPS4025-470M-N	47	20	100	560	0.48	0.70

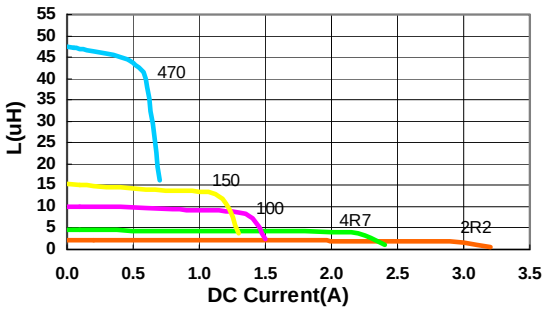
Test Freq.(L): 100KHz , 1V

- Tolerance: M = ±20% , T = ±30%
- Isat: Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Rated DC Current： The less value whith is Isat or Irms.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

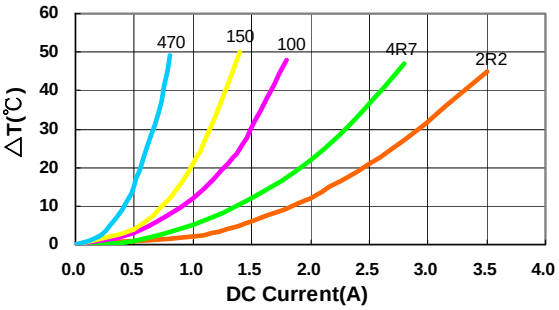
Inductance vs. Frequency Characteristics



Inductance vs. DC Current



Temperature Change vs. DC Current



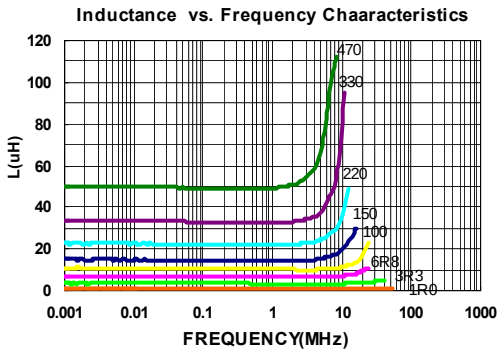
CHILISIN ELECTRONICS CORP.

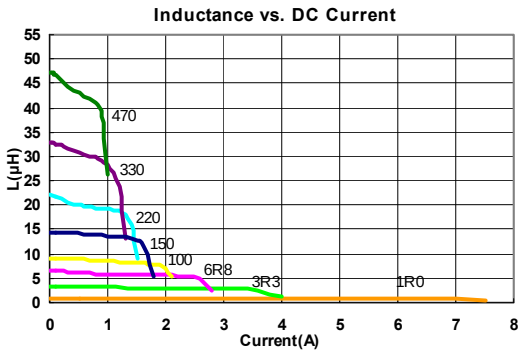
Standard Specifications

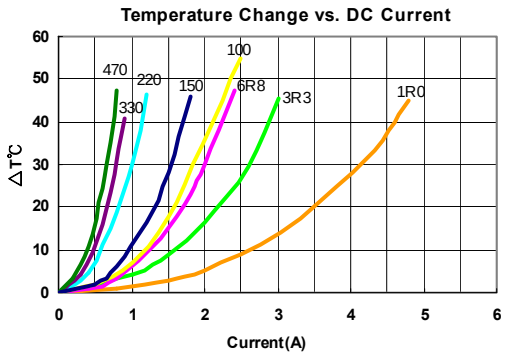
Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	D.C.R (mΩ)Max.	Isat (A)	Irms (A)
SLPS5020-1R0T-N	1.0	30	100	30.0	3.80	4.50
SLPS5020-1R5T-N	1.5	30	100	35.0	3.20	4.50
SLPS5020-2R0T-N	2.0	30	100	45.0	3.00	3.70
SLPS5020-3R3T-N	3.3	30	100	56.6	2.40	2.60
SLPS5020-4R7T-N	4.7	30	100	94.0	2.20	2.15
SLPS5020-6R8T-N	6.8	30	100	118	1.80	1.90
SLPS5020-8R2T-N	8.2	30	100	126	1.60	1.68
SLPS5020-100M-N	10	20	100	160	1.60	1.50
SLPS5020-150M-N	15	20	100	240	1.10	1.46
SLPS5020-220M-N	22	20	100	350	0.78	0.95
SLPS5020-330M-N	33	20	100	480	0.66	0.80
SLPS5020-470M-N	47	20	100	720	0.54	0.68

Test Freq.(L): 100KHz , 1V

- Tolerance: M = ±20% / T = ±30%
- Isat: Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



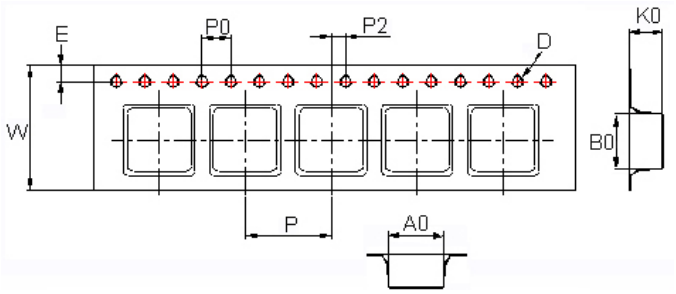




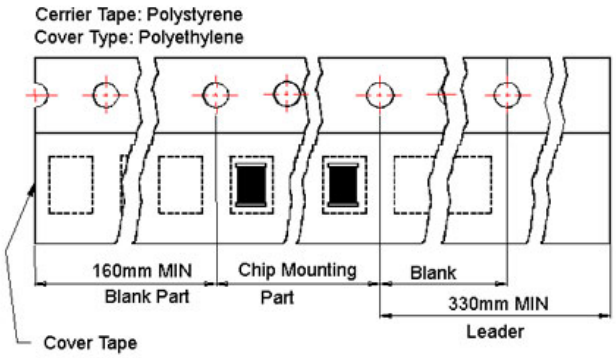
CHILISIN ELECTRONICS CORP.

Packaging Specifications

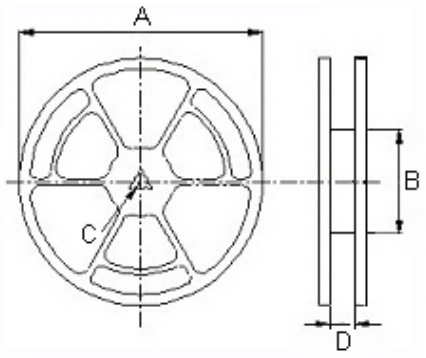
Tape Dimensions



Reel Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SLPS4018	4.1	4.1	2.0	1.55	1.75	12	8	4	2	178	60.2	13	13.2	1000
SLPS4025	4.3	4.3	2.7	1.55	1.75	12	8	4	2	178	60.2	13	13.2	800
SLPS5020	5.3	5.3	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000