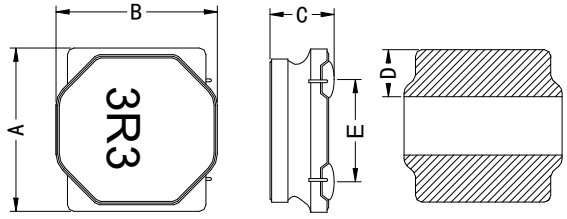
SMD Power Inductor

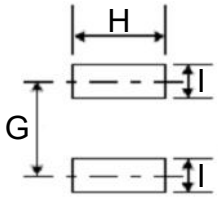
HPC4018BM-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125℃ (Including self - temperature rise).

2. Dimension





Series	*A(mm)	*B(mm)	*C(mm)	D(mm)	E(mm)
HPC4018BM	4.0±0.2	4.0±0.2	1.8 max.	1.1±0.2	2.5±0.2

*Dimensions are not including the termination. For maximum overall dimensions with termination, add 0.1mm.

G(mm)	H(mm)	I(mm)
2.8 ref.	3.7 ref.	1.2 ref.

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

3. Part Numbering

HPC	4018	BM	-	3R3	M
A	B	C		D	E

A: Series
B: Dimension
C: Control S/N — Black marking
D: Inductance — 3R3=3.30uH
E: Inductance Tolerance — M=±20% Y=±30%

marking direction cannot decide polarity. Color: Black, unidirectional.
magnetic shielding

4. Specification

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ±20%	I rms (A)	I sat (A)
HPC4018BM-R47M	0.47	±20%	1V100K	151	0.015	5.50	6.00
HPC4018BM-R56M	0.56	±20%	1V100K	100	0.019	4.50	5.00
HPC4018BM-1R0Y	1.0	±30%	1V100K	90	0.027	3.20	4.00
HPC4018BM-1R2Y	1.2	±30%	1V100K	82	0.030	2.80	3.70
HPC4018BM-1R5Y	1.5	±30%	1V100K	75	0.037	2.40	3.30
HPC4018BM-1R8M	1.8	±20%	1V100K	67	0.040	2.30	3.20
HPC4018BM-2R2M	2.2	±20%	1V100K	60	0.042	2.20	3.00
HPC4018BM-2R7M	2.7	±20%	1V100K	75	0.050	2.10	2.60
HPC4018BM-3R3M	3.3	±20%	1V100K	45	0.055	2.00	2.30
HPC4018BM-4R7M	4.7	±20%	1V100K	35	0.070	1.70	2.00
HPC4018BM-6R8M	6.8	±20%	1V100K	30	0.098	1.45	1.60
HPC4018BM-7R5M	7.5	±20%	1V100K	42	0.120	1.35	1.50
HPC4018BM-100M	10	±20%	1V100K	25	0.150	1.20	1.30
HPC4018BM-150M	15	±20%	1V100K	18	0.210	0.85	1.10
HPC4018BM-220M	22	±20%	1V100K	15	0.290	0.72	0.90
HPC4018BM-330M	33	±20%	1V100K	12	0.460	0.55	0.70
HPC4018BM-470M	47	±20%	1V100K	10	0.650	0.44	0.60
HPC4018BM-680M	68	±20%	1V100K	8.3	1.00	0.32	0.52
HPC4018BM-101M	100	±20%	1V100K	6.5	1.45	0.28	0.42
HPC4018BM-151M	150	±20%	1V100K	5.5	2.30	0.22	0.34
HPC4018BM-221M	220	±20%	1V100K	4.0	3.80	0.17	0.275

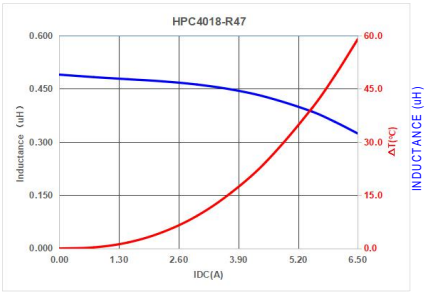
Note:

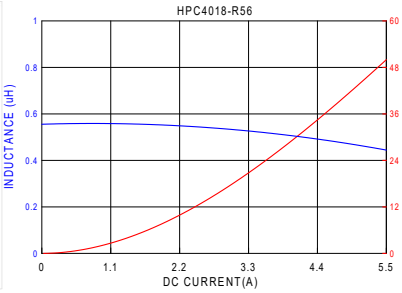
Isat：Saturation Current (Isat) will cause L0 to drop approximately 30%.

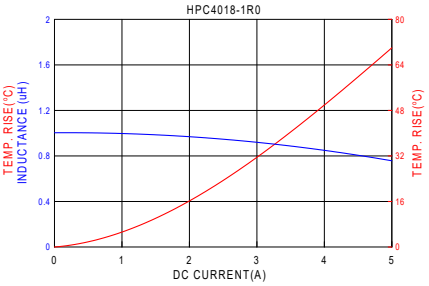
Irms：Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃.

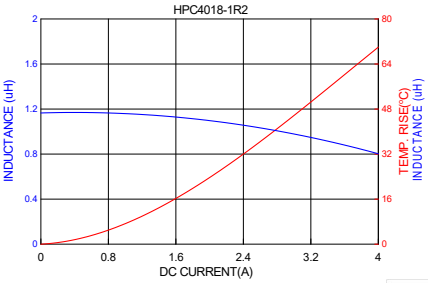
Rated DC Current： The less value whith is Irms or Isat.

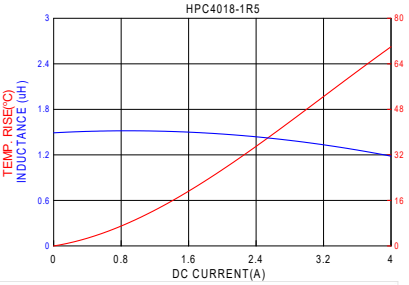
5. Typical Performance Curves

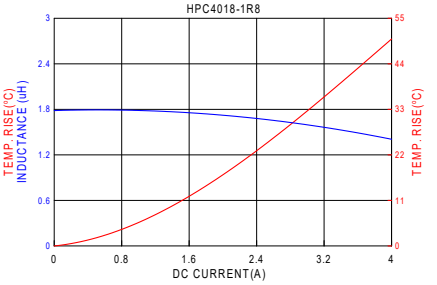


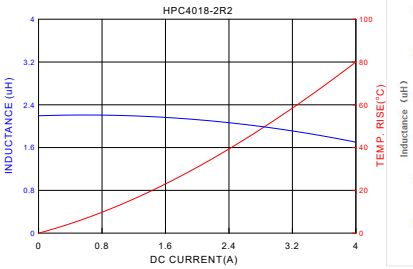


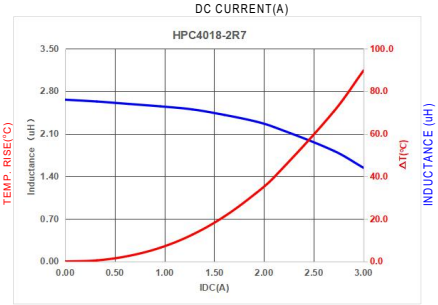


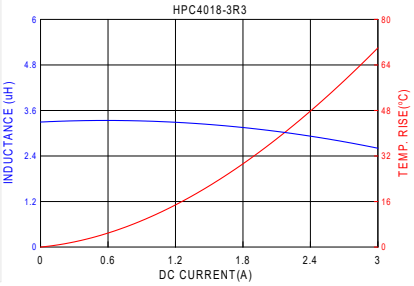


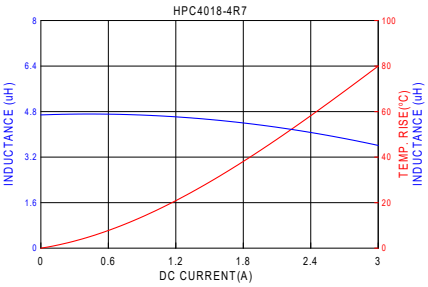


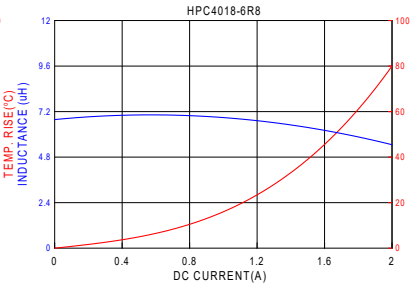


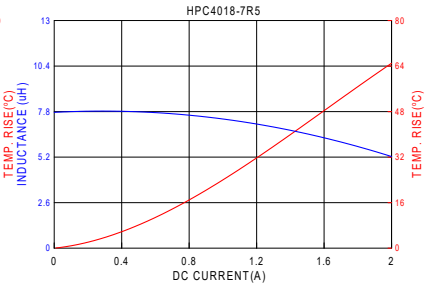


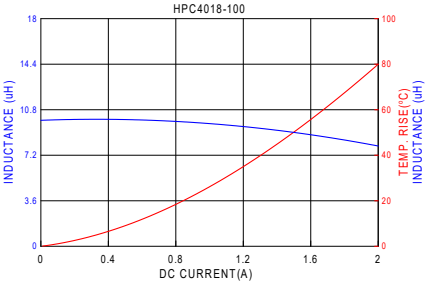


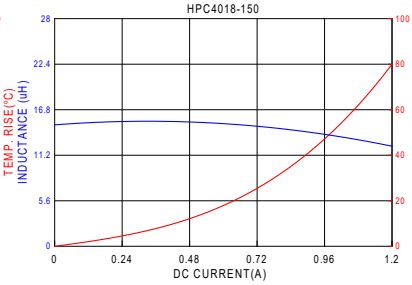


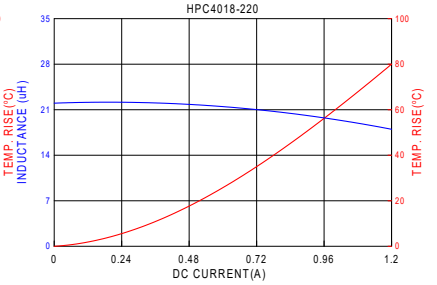


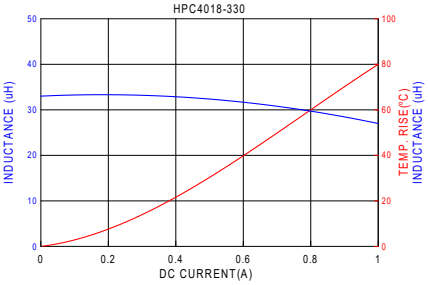


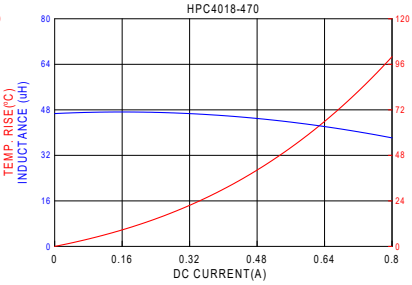


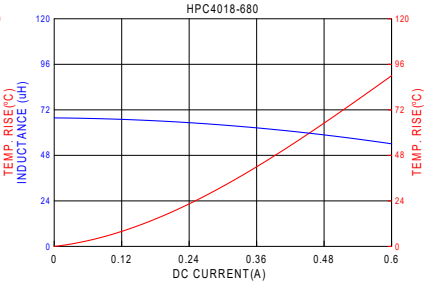


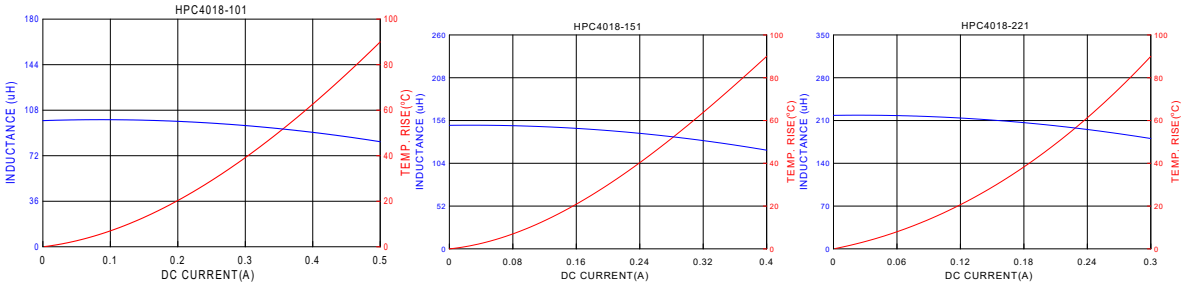











HPC4018-101
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
HPC4018-151
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
HPC4018-221
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)