

# Power Inductor

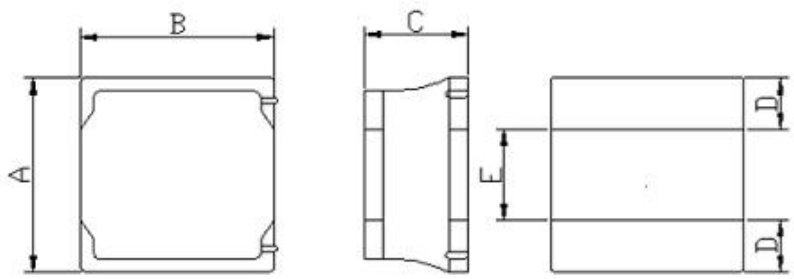
**HPC4018NF-SERIES**

## 1. Features

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



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4018NF	4.0±0.2	4.0±0.2	1.8 max.	1.2 ref.	1.6 ref.

Units: mm

## 3. Part Numbering

HPC
4018
NF
-
4R7
M

A: Series

B: Dimension

C: Lead Free

D: Inductance

4R7=4.7uH

E: Inductance Tolerance

M=±20%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	I sat (A)	I rms (A)
HPC4018NF-1R0M	1.0	$\pm 20\%$	1V100K	0.027	4.00	3.70
HPC4018NF-1R5M	1.5	$\pm 20\%$	1V100K	0.032	3.30	3.30
HPC4018NF-2R2M	2.2	$\pm 20\%$	1V100K	0.042	3.00	2.90
HPC4018NF-3R3M	3.3	$\pm 20\%$	1V100K	0.055	2.30	2.30
HPC4018NF-4R7M	4.7	$\pm 20\%$	1V100K	0.070	2.00	2.00
HPC4018NF-6R8M	6.8	$\pm 20\%$	1V100K	0.098	1.70	1.70
HPC4018NF-100M	10	$\pm 20\%$	1V100K	0.150	1.50	1.50
HPC4018NF-150M	15	$\pm 20\%$	1V100K	0.190	1.10	1.10
HPC4018NF-220M	22	$\pm 20\%$	1V100K	0.290	0.90	0.90
HPC4018NF-330M	33	$\pm 20\%$	1V100K	0.405	0.75	0.75
HPC4018NF-470M	47	$\pm 20\%$	1V100K	0.550	0.60	0.60
HPC4018NF-680M	68	$\pm 20\%$	1V100K	0.890	0.55	0.55
HPC4018NF-101M	100	$\pm 20\%$	1V100K	1.380	0.45	0.45
HPC4018NF-151M	150	$\pm 20\%$	1V100K	1.970	0.35	0.35
HPC4018NF-221M	220	$\pm 20\%$	1V100K	3.000	0.30	0.30

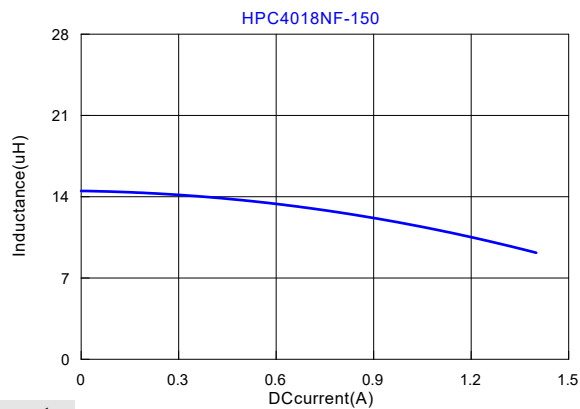
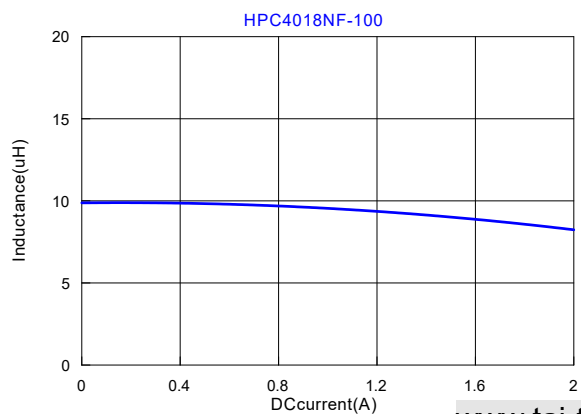
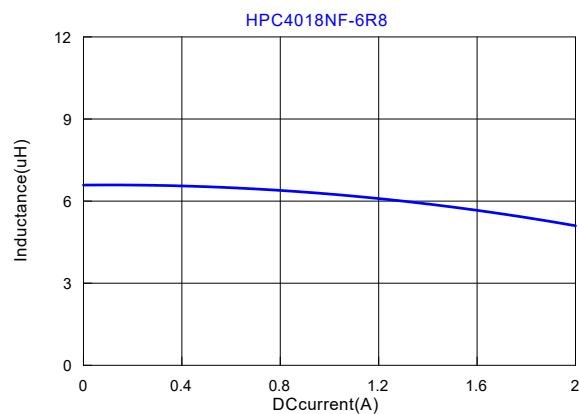
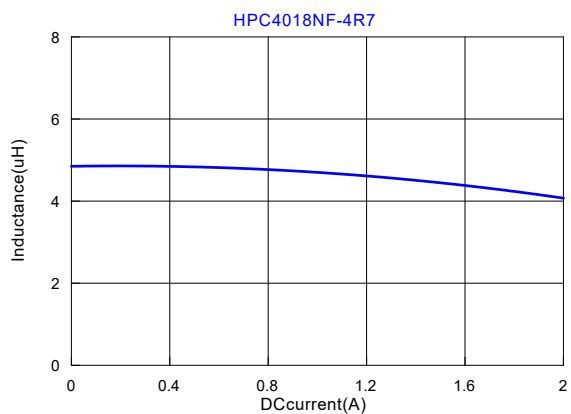
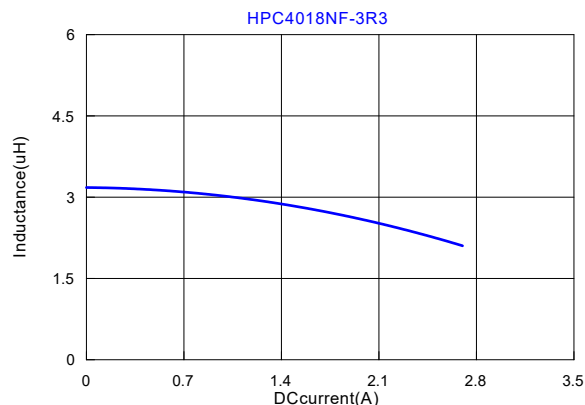
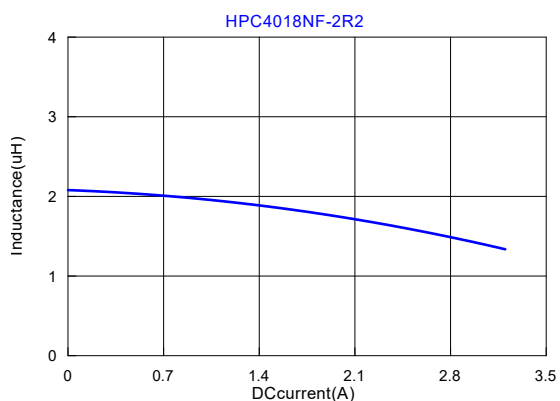
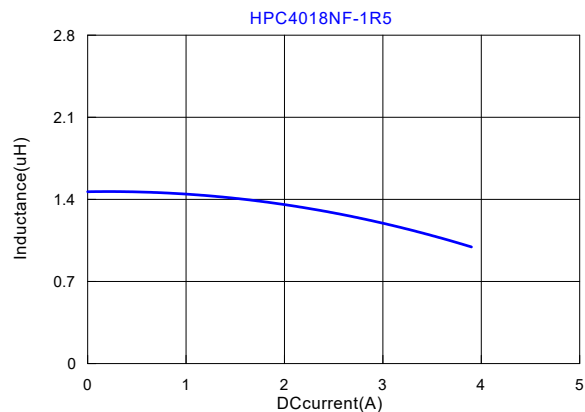
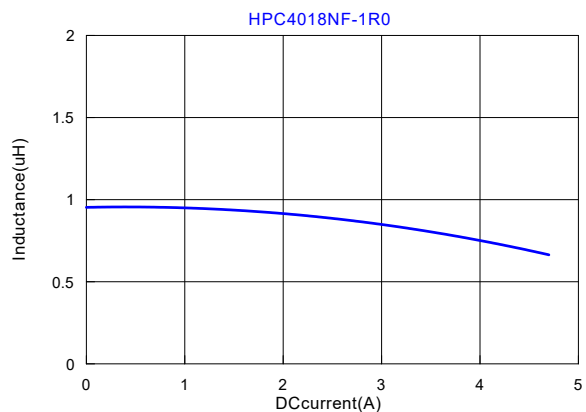
Note:

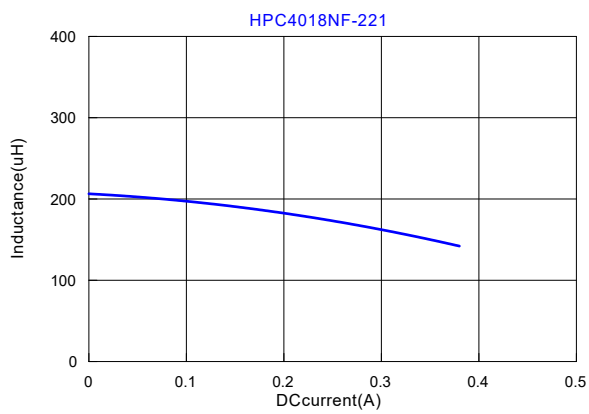
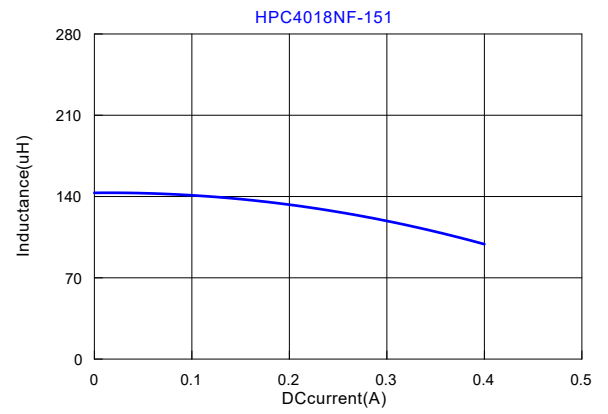
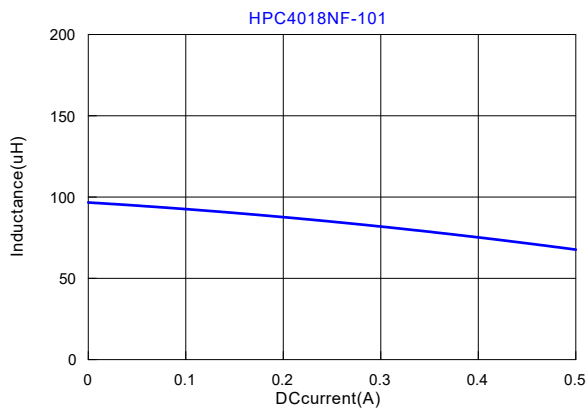
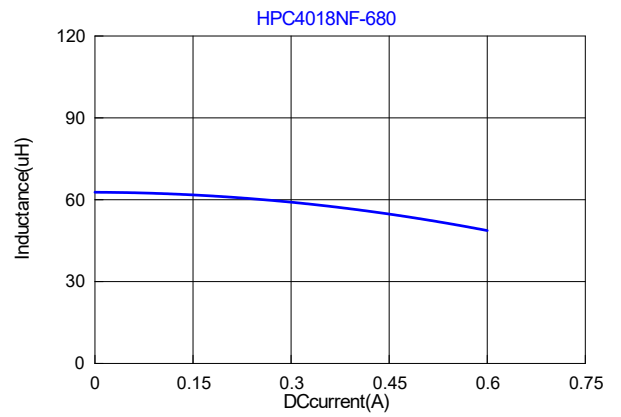
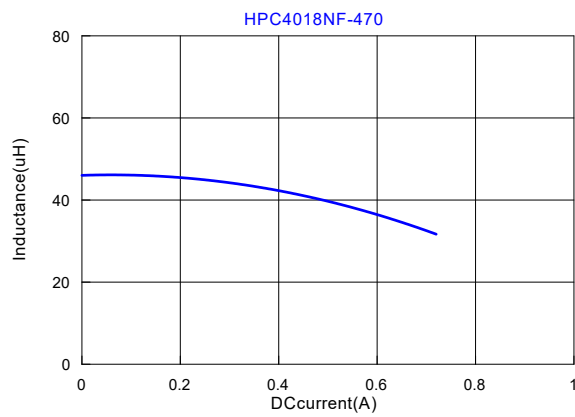
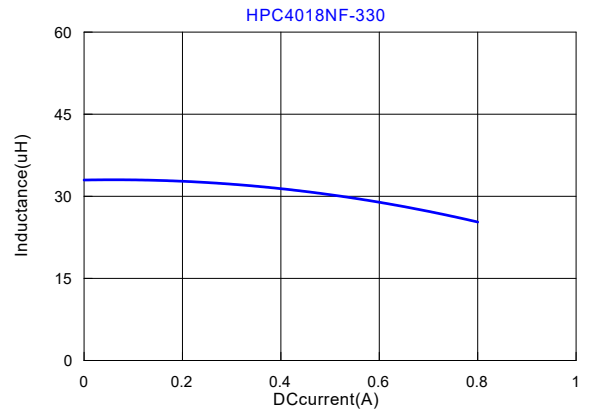
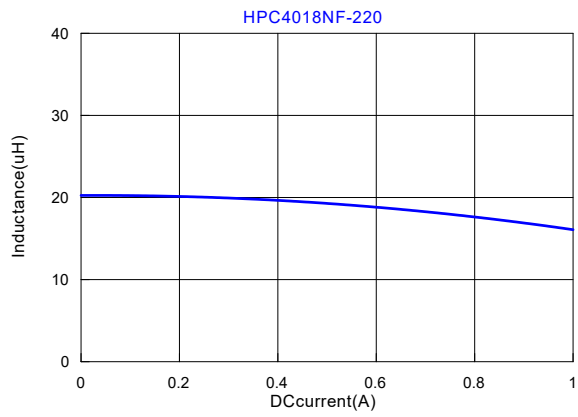
I<sub>sat</sub> : Saturation Current (I<sub>sat</sub>) will cause L0 to drop approximately 30%.

I<sub>rms</sub> : Heat Rated Current (I<sub>rms</sub>) will cause the coil temperature rise approximately  $\Delta T$  of 40°C.

Rated DC Current : The less value which is I<sub>rms</sub> or I<sub>sat</sub>.

### 5. Typical Performance Curves





## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Fixed Inductors](#) category:*

*Click to view products by [Tai-Tech](#) manufacturer:*

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)  
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)  
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)  
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)  
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)  
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)