

# Power Inductor

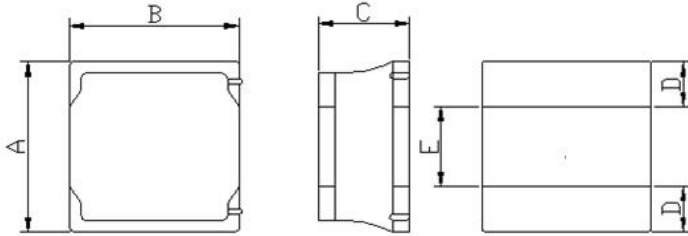
HPC3015TV-SERIES

## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply with AEC-Q200
4. Operating temperature:-55~+125°C (Including self - temperature rise)

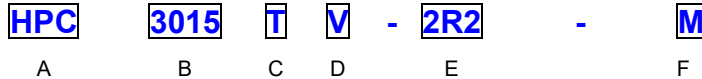


## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC3015TV	3.0±0.2	3.0±0.2	1.5 max.	1.0 ref.	1.0 ref.

## 3. Part Numbering



- A: Series
  - B: Dimension
  - C: Lead Free
  - D: Category Code
  - E: Inductance
  - F: Inductance Tolerance
- V=Vehicle  
 2R2=2.2uH  
 M= ±20%;Y= ±30%

## 4. Specification

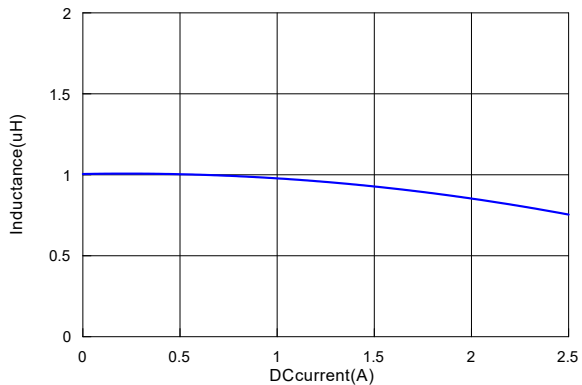
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)typ	I sat (A)max.	I rms (A)typ	I rms (A)max.
HPC3015TV-1R0Y	1.0	±30%	1V100K	0.030	2.20	2.00	2.20	2.00
HPC3015TV-1R5Y	1.5	±30%	1V100K	0.040	2.00	1.80	2.00	1.80
HPC3015TV-2R2M	2.2	±20%	1V100K	0.060	1.70	1.50	1.70	1.50
HPC3015TV-3R3M	3.3	±20%	1V100K	0.080	1.40	1.20	1.40	1.20
HPC3015TV-4R7M	4.7	±20%	1V100K	0.120	1.20	1.00	1.20	1.00
HPC3015TV-6R8M	6.8	±20%	1V100K	0.160	1.00	0.90	1.00	0.90
HPC3015TV-100M	10	±20%	1V100K	0.220	0.75	0.65	0.80	0.70
HPC3015TV-150M	15	±20%	1V100K	0.320	0.65	0.55	0.70	0.60
HPC3015TV-220M	22	±20%	1V100K	0.460	0.55	0.45	0.60	0.50
HPC3015TV-330M	33	±20%	1V100K	0.800	0.40	0.35	0.45	0.40
HPC3015TV-470M	47	±20%	1V100K	1.200	0.35	0.30	0.40	0.35

Note:

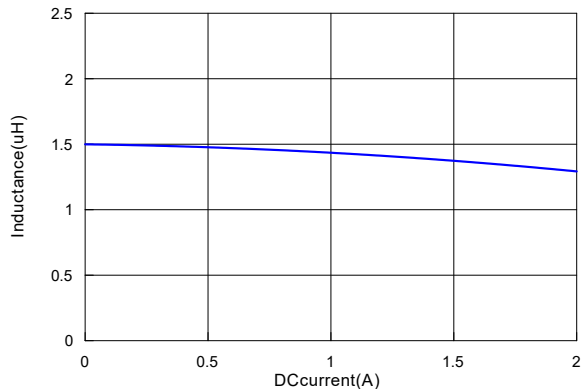
- Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.
- Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C

### 9. Typical Performance Curves

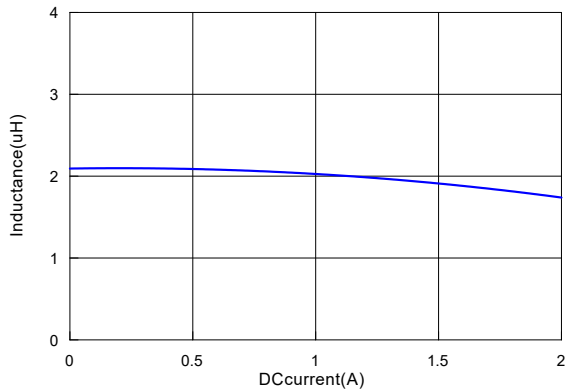
HPC3015TV-1R0



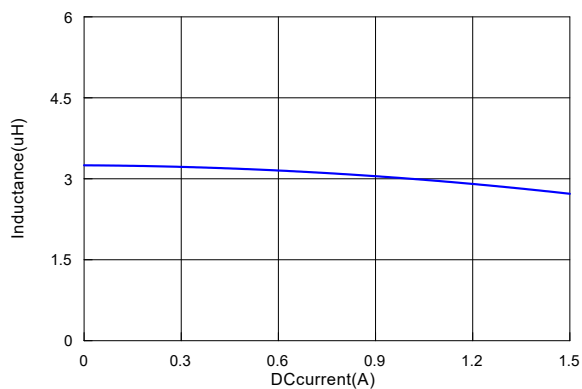
HPC3015TV-1R5



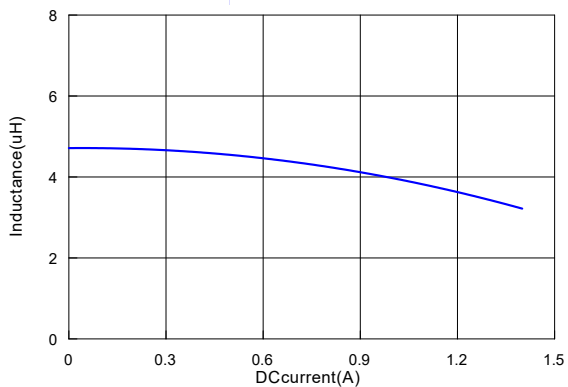
HPC3015TV-2R2



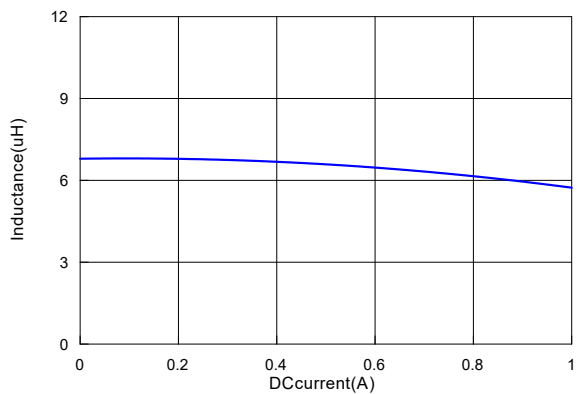
HPC3015TV-3R3



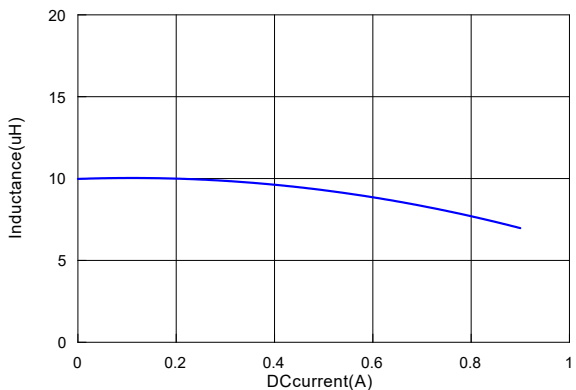
HPC3015TV-4R7



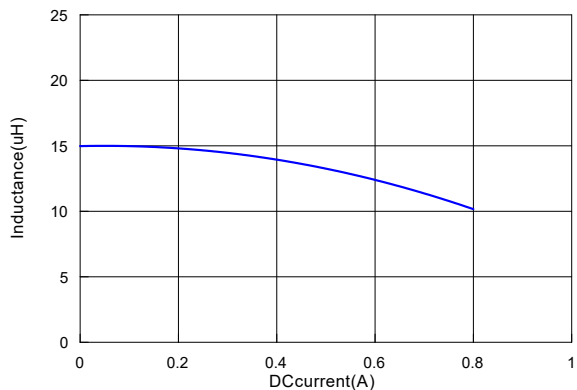
HPC3015TV-6R8



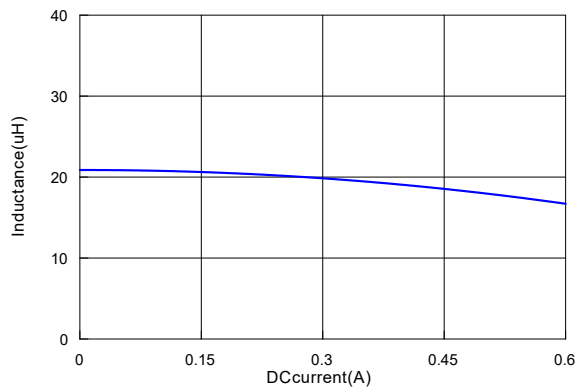
HPC3015TV-100



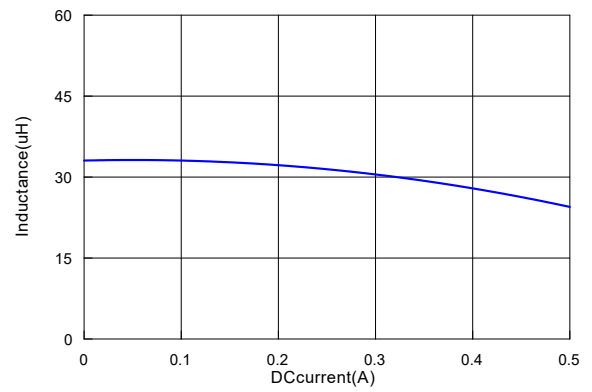
HPC3015TV-150



HPC3015TV-220



HPC3015TV-330



HPC3015TV-470

