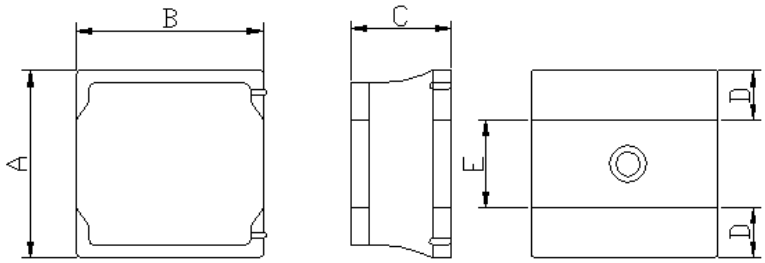
# Power Inductor

**HPC3010TV-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℃ (Including self - temperature rise)

## 2. Dimension




| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|---|---|---|---|---|---|
| HPC3010TV | 3.0±0.2 | 3.0±0.2 | 1.0max. | 1.0 ref. | 1.0 ref. |

Units: mm

## 3. Part Numbering

| HPC | 3010 | T | V | - | 4R7 | i |
|---|---|---|---|---|---|---|
| A | B | C | D | | E | F |

A: Series
B: Dimension
C: Lead Free
D: Category Code V=Vehicle
E: Inductance 4R7=4.7uH
F: Inductance Tolerance M=±20% ；Y=±30%

## 4. Specification

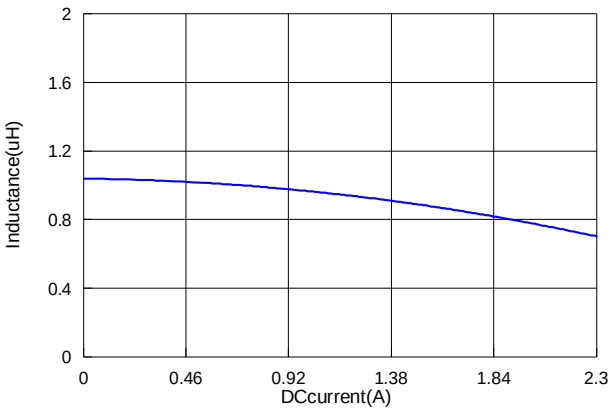
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) ±20% | I sat (A) typ. | I sat (A )max. | I rms (A) typ. | I rms (A) max. |
|---|---|---|---|---|---|---|---|---|
| HPC3010TV-1R0Y | 1.0 | ±30% | 0.1V/1M | 0.055 | 2.20 | 1.80 | 2.50 | 2.10 |
| HPC3010TV-1R5Y | 1.5 | ±30% | 0.1V/1M | 0.070 | 2.00 | 1.50 | 2.20 | 1.90 |
| HPC3010TV-2R2M | 2.2 | ±20% | 0.1V/1M | 0.090 | 1.60 | 1.30 | 2.10 | 1.70 |
| HPC3010TV-3R3M | 3.3 | ±20% | 0.1V/1M | 0.130 | 1.30 | 1.10 | 1.70 | 1.50 |
| HPC3010TV-4R7M | 4.7 | ±20% | 0.1V/1M | 0.170 | 1.20 | 0.90 | 1.50 | 1.30 |
| HPC3010TV-6R8M | 6.8 | ±20% | 0.1V/1M | 0.260 | 0.90 | 0.77 | 1.30 | 1.00 |
| HPC3010TV-100M | 10 | ±20% | 0.1V/1M | 0.350 | 0.75 | 0.63 | 1.00 | 0.80 |
| HPC3010TV-150M | 15 | ±20% | 0.1V/1M | 0.510 | 0.65 | 0.54 | 0.80 | 0.70 |
| HPC3010TV-220M | 22 | ±20% | 0.1V/1M | 0.750 | 0.55 | 0.43 | 0.75 | 0.60 |

Note:

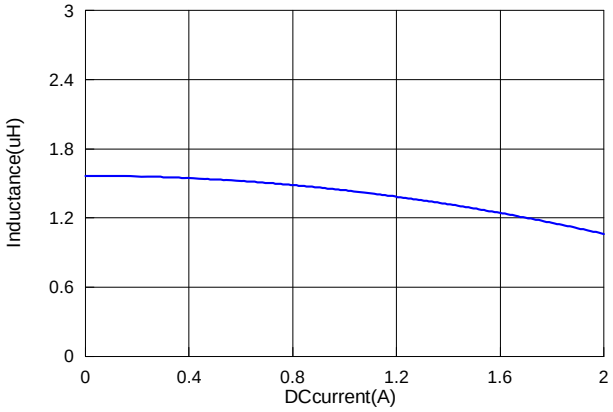
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃.）Max

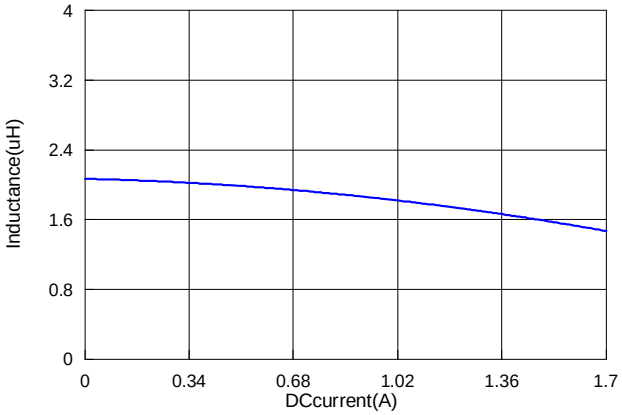
HPC3010TV-1R0



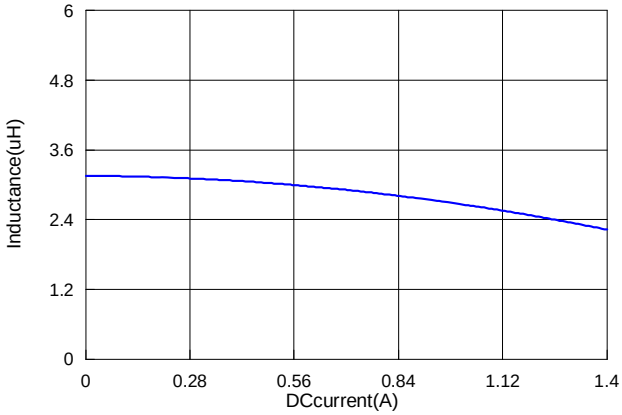

HPC3010TV-1R5



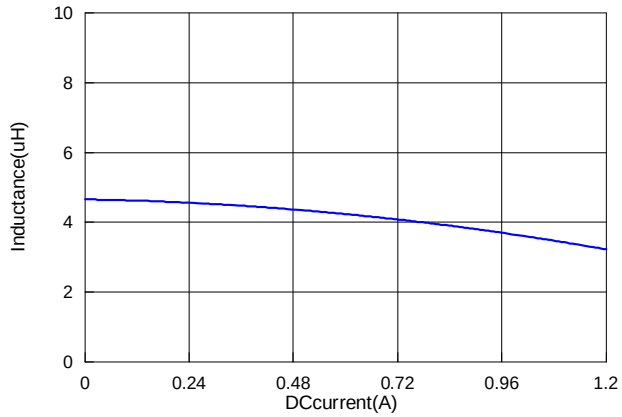

HPC3010TV-2R2



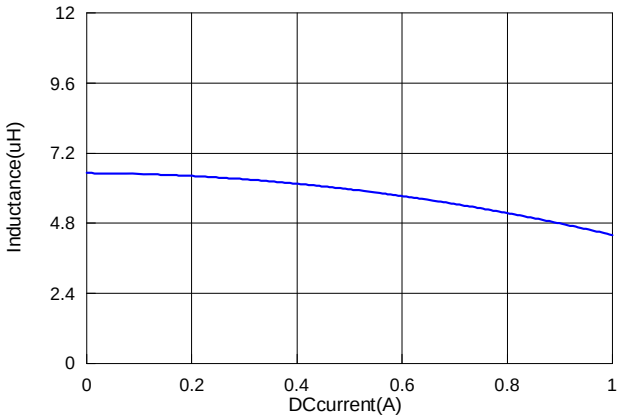

HPC3010TV-3R3



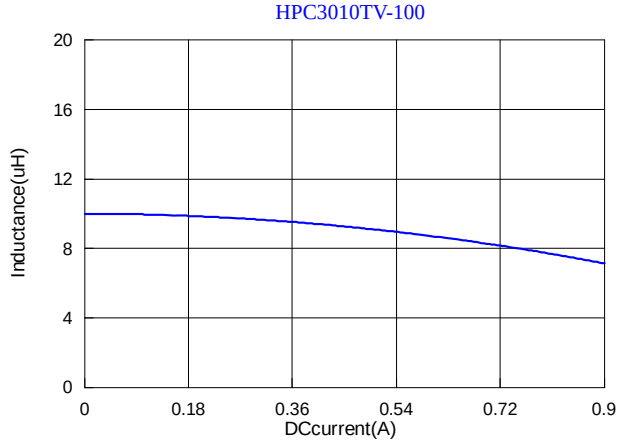

HPC3010TV-4R7



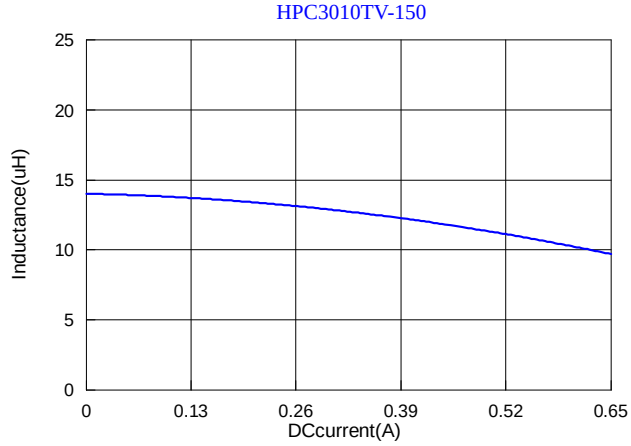

HPC3010TV-6R8




HPC3010TV-100




HPC3010TV-150



HPC3010TV-220

