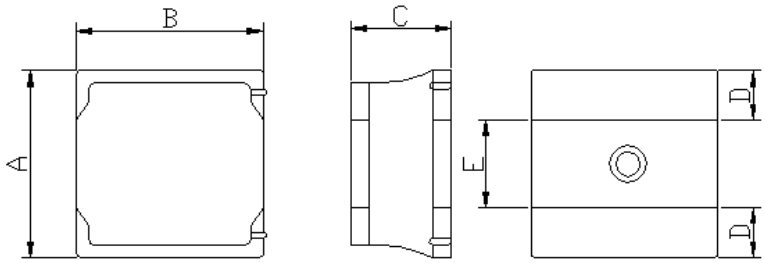
Power Inductor

HPC3012TV-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)
HPC3012TV	3.0±0.2	3.0±0.2	1.2 max.	1.0 ref.	1.0 ref.

Units: mm

3. Part Numbering

HPC	3012	T	V	-	4R7	M
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

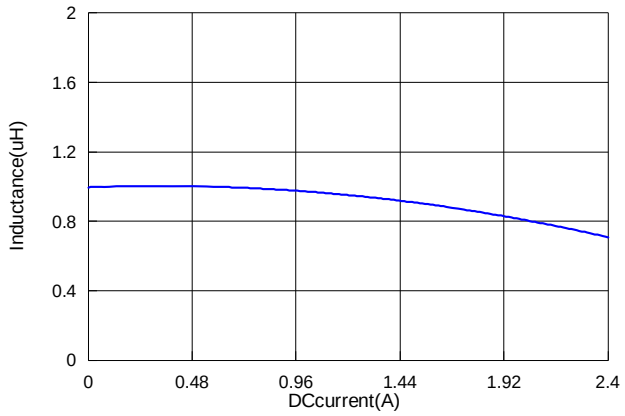
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I rms (A) typ.
HPC3012TV-1R0Y	1.0	±30%	0.1V/1M	0.042	2.15	2.00
HPC3012 TV-1R5Y	1.5	±30%	0.1V/1M	0.056	1.70	1.85
HPC3012 TV-2R2M	2.2	±20%	0.1V/1M	0.080	1.50	1.70
HPC3012 TV-3R3M	3.3	±20%	0.1V/1M	0.100	1.20	1.55
HPC3012 TV-4R7M	4.7	±20%	0.1V/1M	0.130	1.05	1.30
HPC3012 TV-6R8M	6.8	±20%	0.1V/1M	0.180	0.90	1.05
HPC3012 TV-100M	10	±20%	0.1V/1M	0.245	0.76	0.89
HPC3012 TV-150M	15	±20%	0.1V/1M	0.386	0.62	0.74
HPC3012 TV-220M	22	±20%	0.1V/1M	0.580	0.49	0.61

Note:

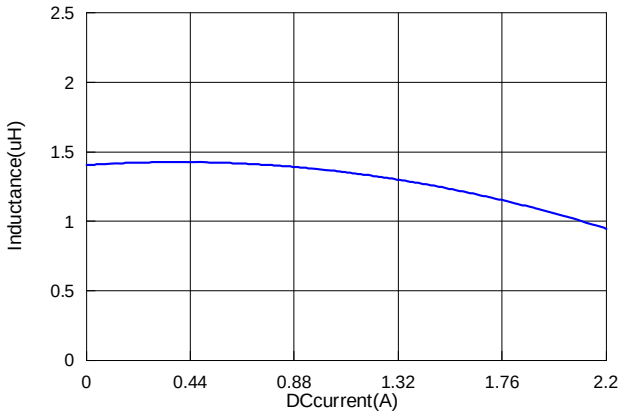
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

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

HPC3012TV-1R0



HPC3012TV-1R5



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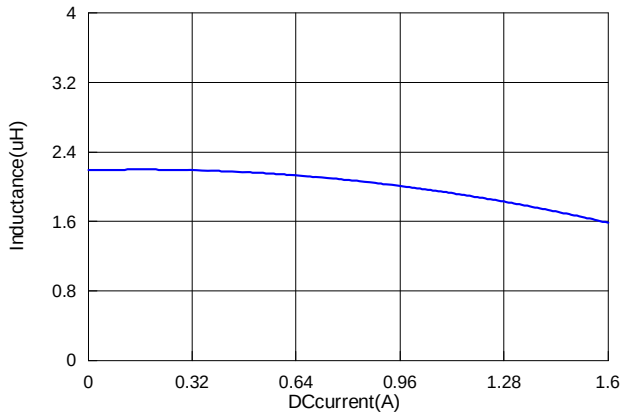
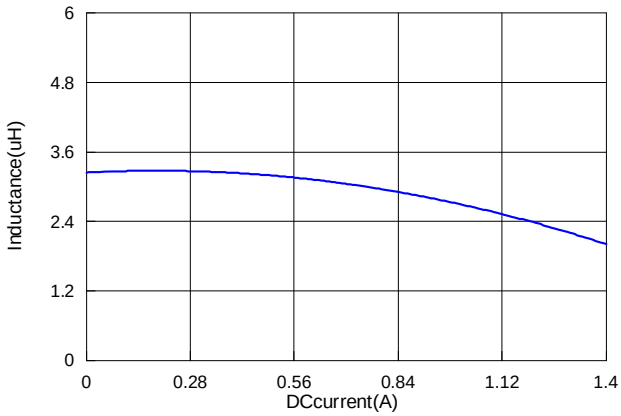


HPC3012TV-3R3



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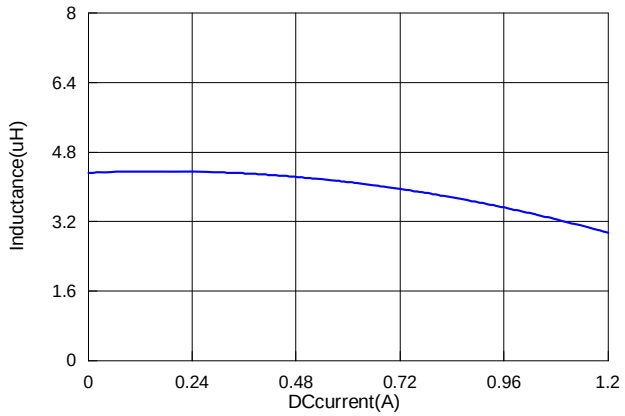

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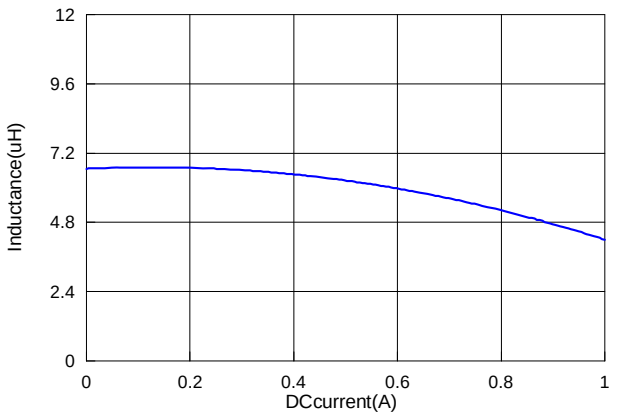
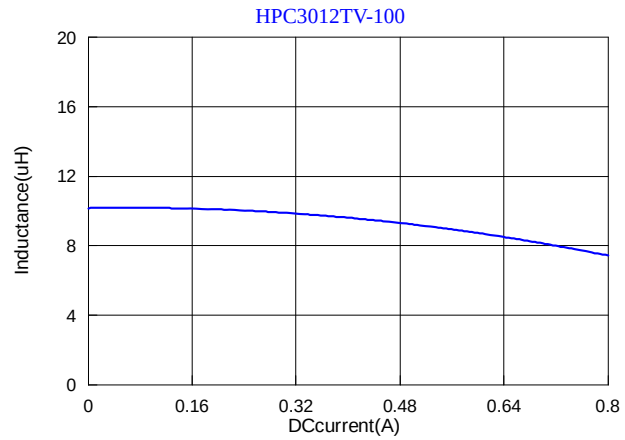
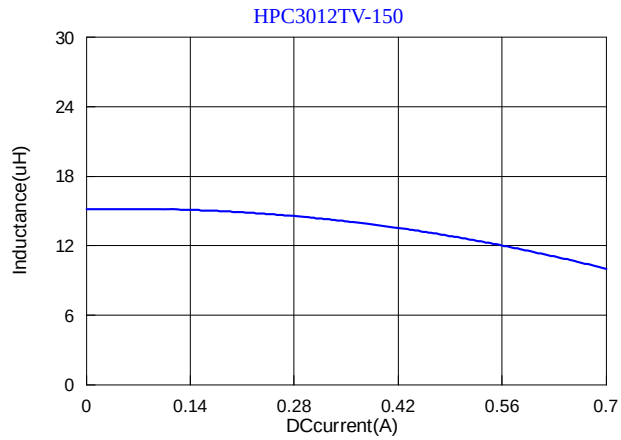
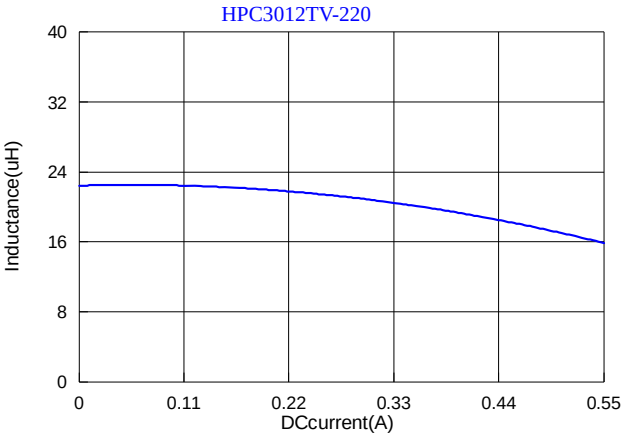


HPC3012TV-100



HPC3012TV-150




HPC3012TV-220
40
32
24
16
8
0
Inductance(uH)
0
0.11
0.22
0.33
0.44
0.55
DCcurrent(A)