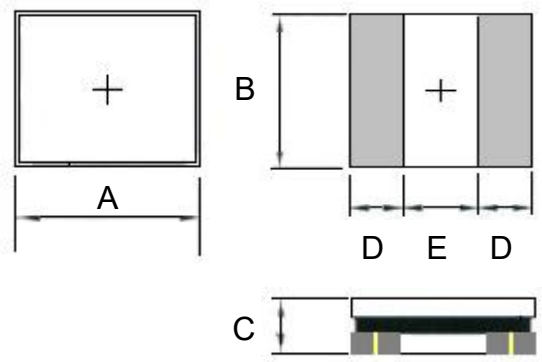
Power Inductor

HPC252012CF-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)
HPC252012CF	2.5±0.2	2.0±0.2	1.2Max	0.85 ref.	0.80 ref.

Units: mm

3. Part Numbering

HPC	252012	CF	-	4R7	M
A	B	C		D	E

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

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC252012CF-1R0Y	1.0	±30%	0.1V/1M	0.073	2.80	2.20
HPC252012CF-1R5Y	1.5	±30%	0.1V/1M	0.100	2.20	1.86
HPC252012CF-2R2M	2.2	±20%	0.1V/1M	0.129	1.80	1.70
HPC252012CF-3R3M	3.3	±20%	0.1V/1M	0.220	1.30	1.20
HPC252012CF-4R7M	4.7	±20%	0.1V/1M	0.290	1.10	1.04
HPC252012CF-6R8M	6.8	±20%	0.1V/1M	0.370	0.94	0.94
HPC252012CF-100M	10	±20%	0.1V/1M	0.570	0.82	0.84
HPC252012CF-150M	15	±20%	0.1V/1M	0.835	0.70	0.50
HPC252012CF-220M	22	±20%	0.1V/1M	1.200	0.60	0.45

Note:

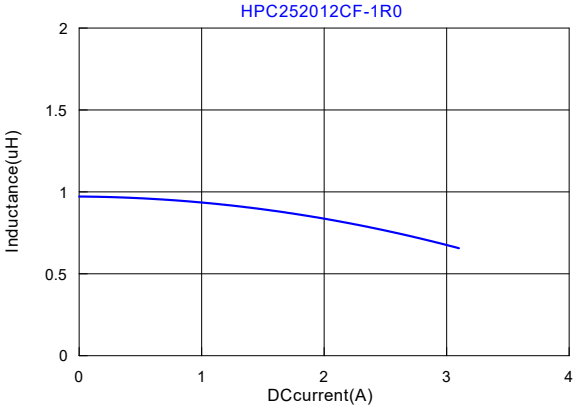
Isat：Saturation Current (Isat) will cause L0 to drop approximately 30%.

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

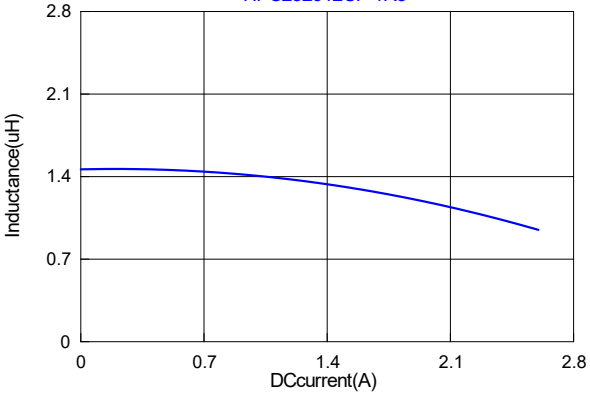
Rated DC Current： The less value whith is Irms or Isat.

5.Typical Performance Curve

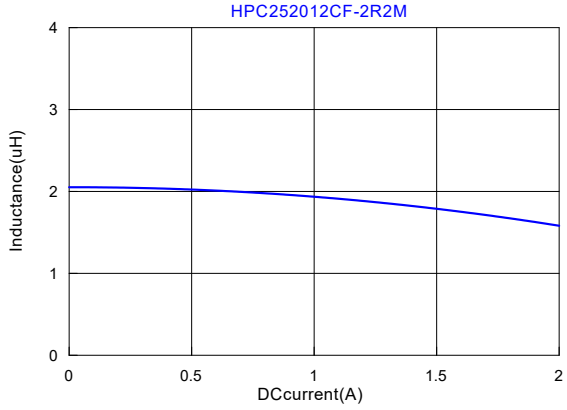
HPC252012CF-1R0



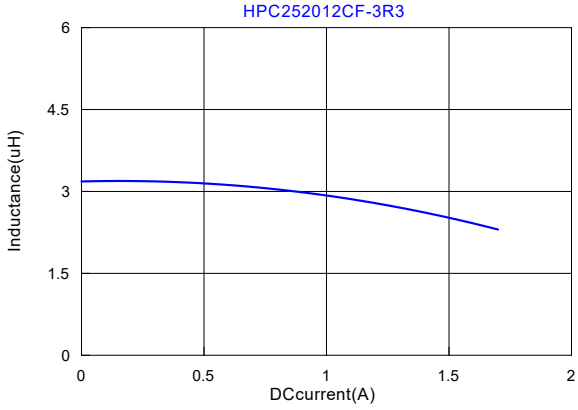
HPC252012CF-1R5



HPC252012CF-2R2M



HPC252012CF-3R3



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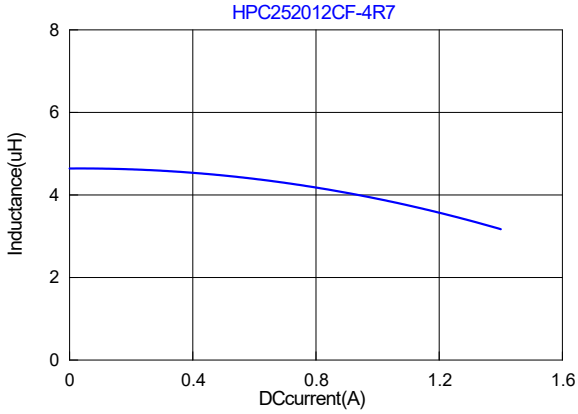

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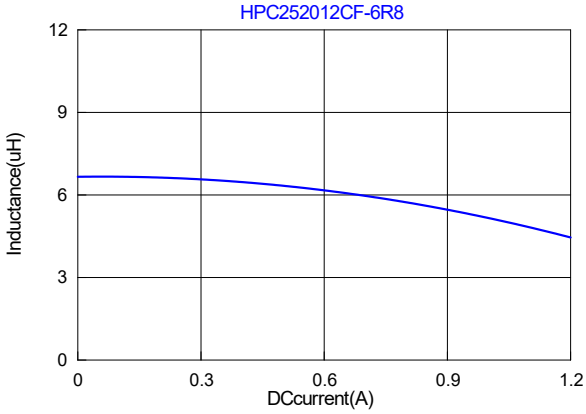
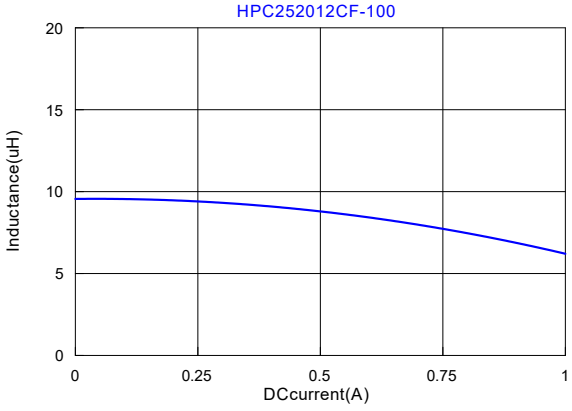
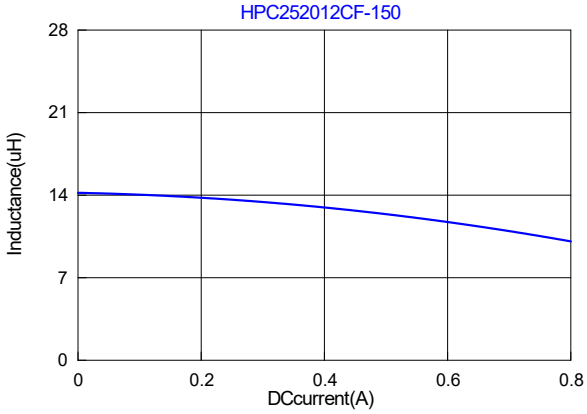
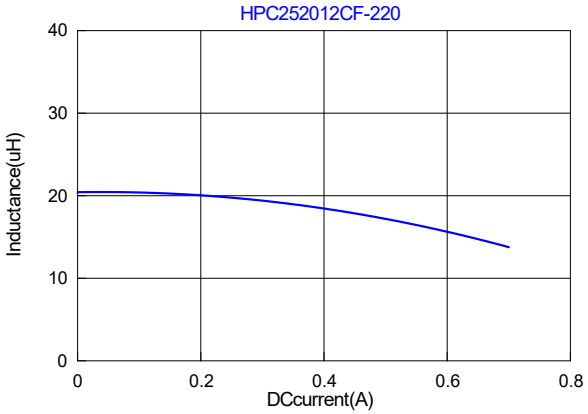


HPC252012CF-100



HPC252012CF-150




HPC252012CF-220
40
30
20
10
0
Inductance(uH)
0
0.2
0.4
0.6
0.8
DCcurrent(A)