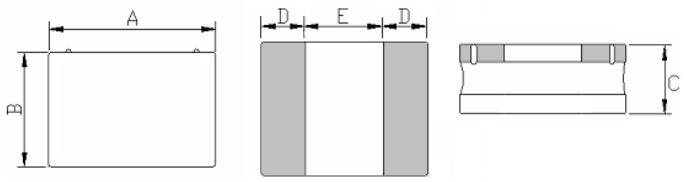
Power Inductor

DFP201612NF-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)
DFP201612NF	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.20Max.	0.60 ref.	0.80 ref.

3. Part Numbering

DFP	201612	NF	-	R24	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R24=0.24uH
E: Inductance Tolerance M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A)	I rms (A)
DFP201612NF-R24M	0.24	±20%	0.1V/1M	0.025	0.033	5.40	4.00
DFP201612NF-R33M	0.33	±20%	0.1V/1M	0.027	0.034	4.70	3.90
DFP201612NF-R47M	0.47	±20%	0.1V/1M	0.035	0.046	3.90	3.30
DFP201612NF-R56M	0.56	±20%	0.1V/1M	0.053	0.064	3.50	3.00
DFP201612NF-R68M	0.68	±20%	0.1V/1M	0.055	0.066	3.30	3.00
DFP201612NF-1R0M	1.00	±20%	0.1V/1M	0.080	0.104	3.00	2.70
DFP201612NF-1R2M	1.20	±20%	0.1V/1M	0.088	0.106	3.00	2.70
DFP201612NF-1R5M	1.50	±20%	0.1V/1M	0.090	0.108	2.50	2.10
DFP201612NF-2R2M	2.20	±20%	0.1V/1M	0.155	0.186	2.00	1.50

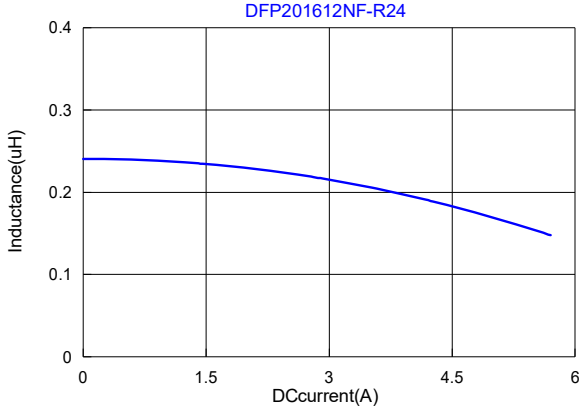
Note:

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

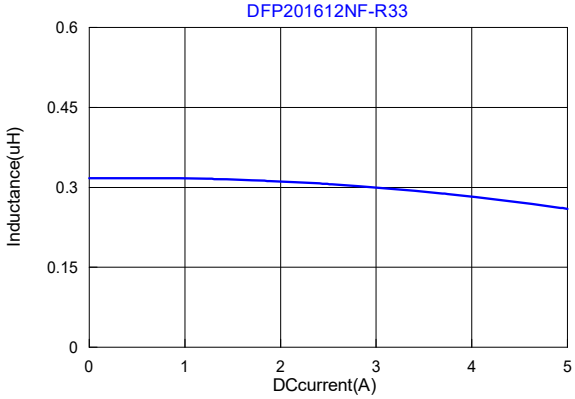
Irms：Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃

9.Typical Performance Curves

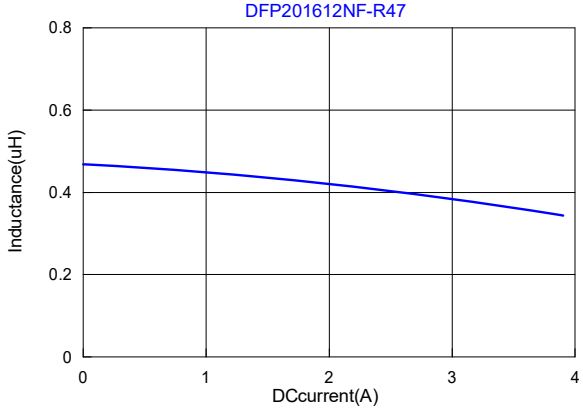
DFP201612NF-R24



DFP201612NF-R33



DFP201612NF-R47



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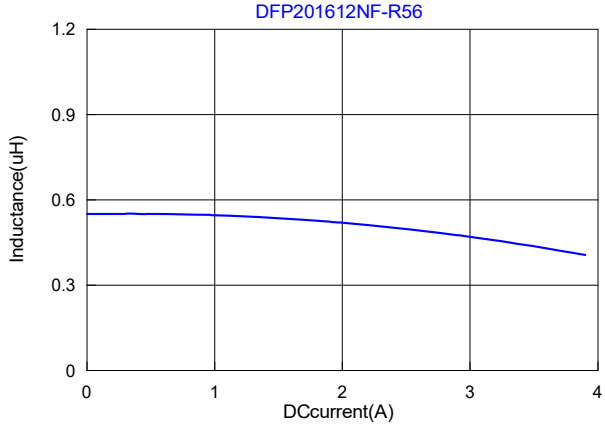

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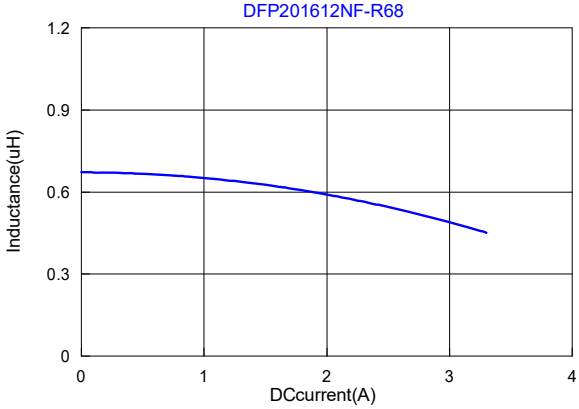
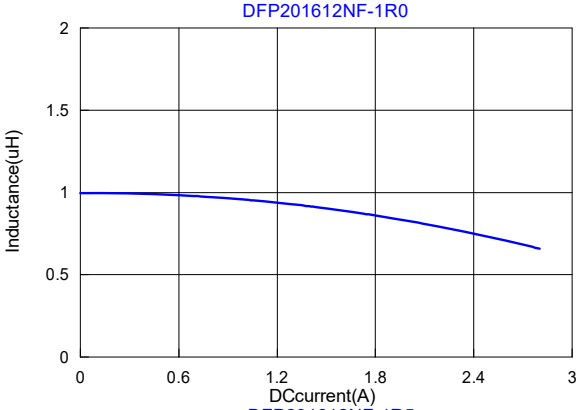


DFP201612NF-1R0



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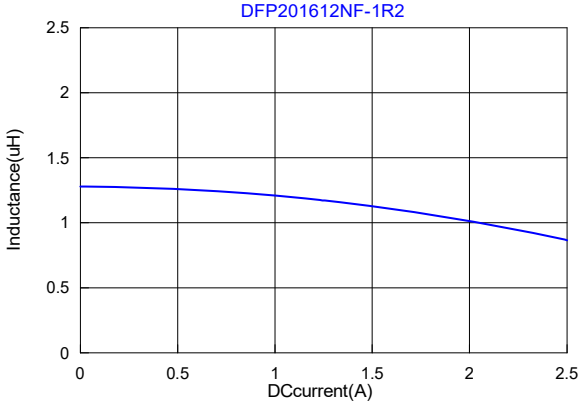

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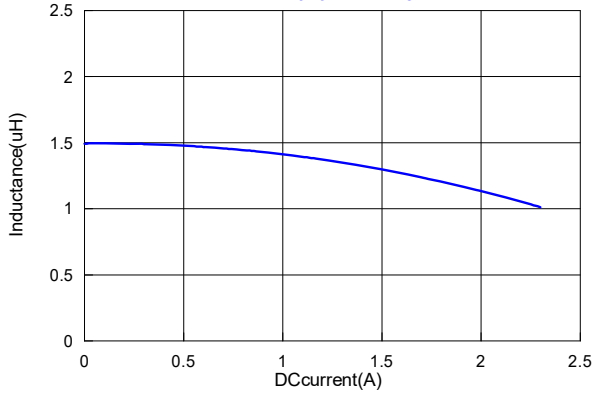

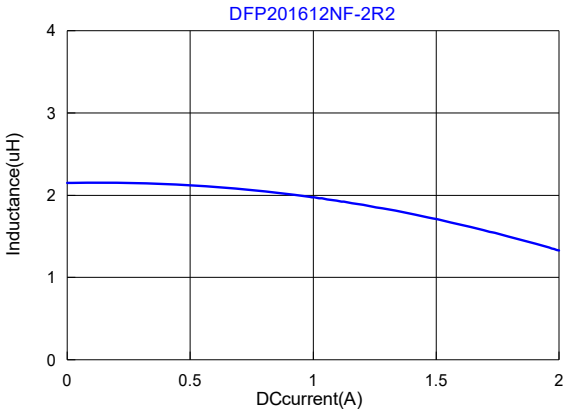
DFP201612NF-2R2
Inductance(uH)
DCcurrent(A)
0
1
2
3
4
0
0.5
1
1.5
2