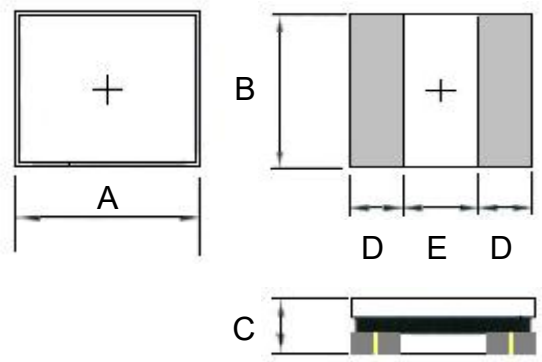
Power Inductor

DFP252010BF-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)
DFP252010BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.0Max	0.85 ref.	0.80 ref.

Units: mm

3. Part Numbering

DFP	252010	BF	-	R47	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R47=0.47uH
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)
DFP252010BF-R24M	0.24	±20%	0.1V/1M	0.030	0.042	4.80	3.60
DFP252010BF-R33M	0.33	±20%	0.1V/1M	0.032	0.044	4.30	3.50
DFP252010BF-R47M	0.47	±20%	0.1V/1M	0.034	0.046	4.00	3.40
DFP252010BF-R68M	0.68	±20%	0.1V/1M	0.046	0.055	3.70	3.30
DFP252010BF-1R0M	1.0	±20%	0.1V/1M	0.060	0.080	3.40	2.60
DFP252010BF-1R5M	1.5	±20%	0.1V/1M	0.090	0.108	2.70	2.30
DFP252010BF-2R2M	2.2	±20%	0.1V/1M	0.130	0.169	2.40	1.80

Note:

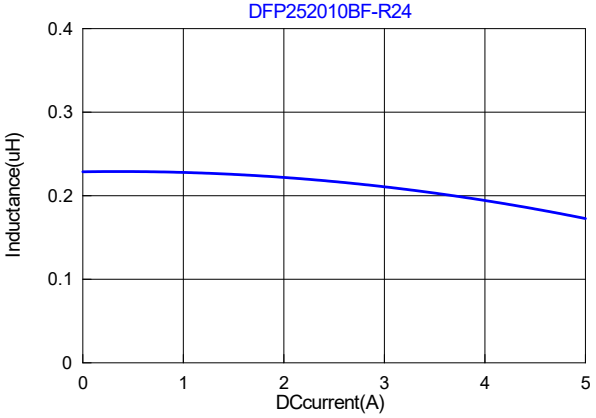
Isat：Saturation Current (Isat) will cause L0 to drop approximately 30%.

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

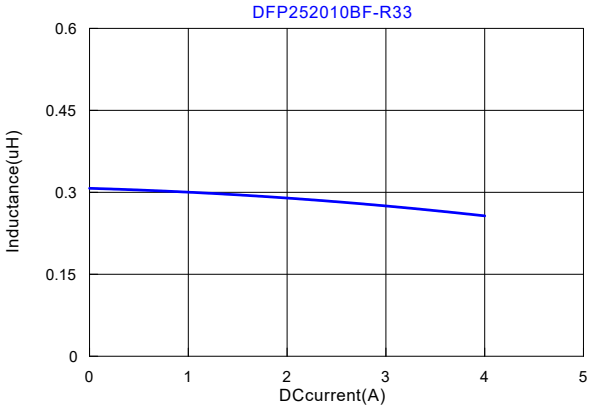
Rated DC Current： The less value whith is Irms or Isat.

5.Typical Performance Curves

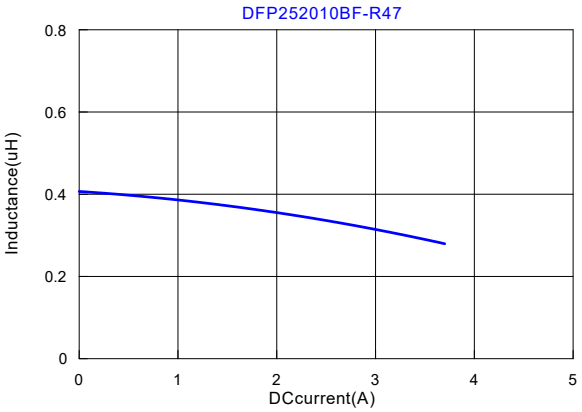
DFP252010BF-R24



DFP252010BF-R33



DFP252010BF-R47



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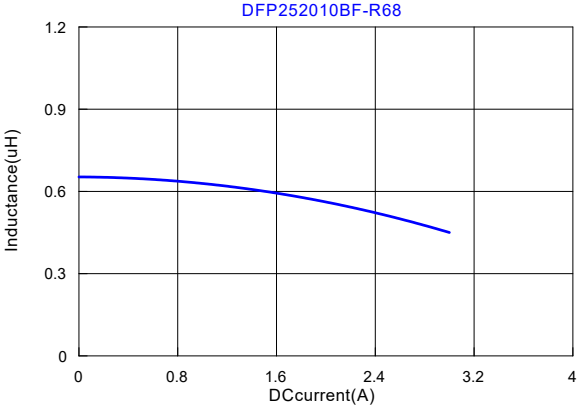
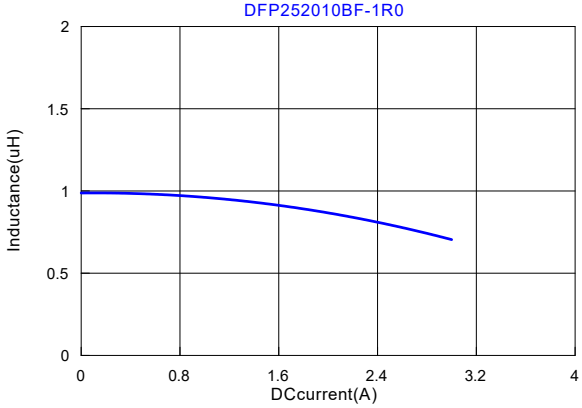
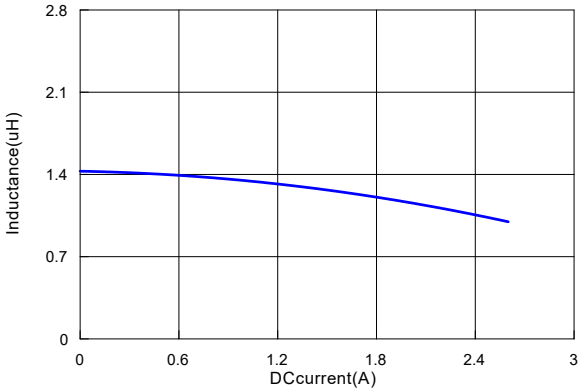


DFP252010BF-1R0



DFP252010BF-1R5



DFP252010BF-2R2