Power Inductor

UHP252010BF-SERIES

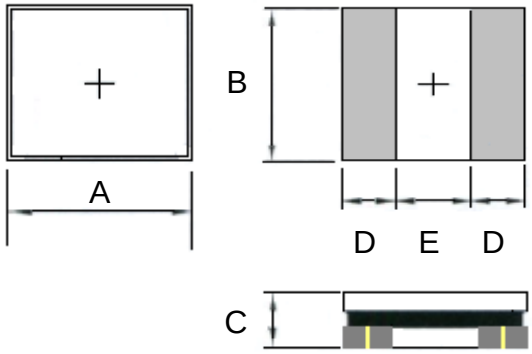
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP252010BF	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

UHP	252010	BF	-	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

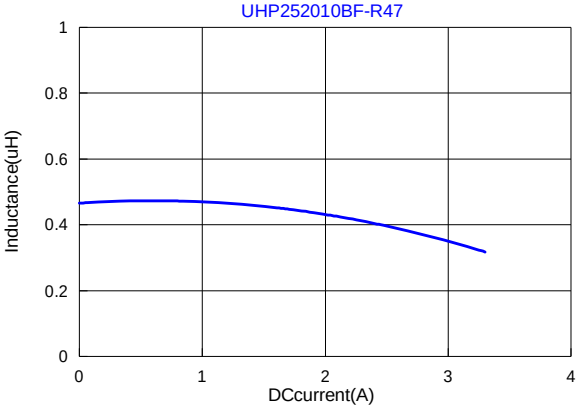
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I sat (A) Max.	I rms (A) typ	I rms (A) Max.
UHP252010BF-R47Y	0.47	±30%	0.1V/1M	0.030	2.85	2.57	2.80	2.50
UHP252010BF-R68Y	0.68	±30%	0.1V/1M	0.039	2.70	2.45	2.45	2.20
UHP252010BF-1R0Y	1.0	±30%	0.1V/1M	0.055	2.45	2.05	2.20	1.80
UHP252010BF-1R5Y	1.5	±30%	0.1V/1M	0.090	1.80	1.70	1.70	1.55
UHP252010BF-2R2M	2.2	±20%	0.1V/1M	0.114	1.60	1.55	1.55	1.40
UHP252010BF-3R3M	3.3	±20%	0.1V/1M	0.170	1.30	1.10	1.25	1.10
UHP252010BF-4R7M	4.7	±20%	0.1V/1M	0.250	1.10	0.95	1.05	0.92
UHP252010BF-6R8M	6.8	±20%	0.1V/1M	0.370	0.95	0.80	0.85	0.76
UHP252010BF-100M	10	±20%	0.1V/1M	0.470	0.75	0.65	0.75	0.67
UHP252010BF-150M	15	±20%	0.1V/1M	0.750	0.55	0.45	0.55	0.50
UHP252010BF-220M	22	±20%	0.1V/1M	1.120	0.50	0.40	0.50	0.45

Note:

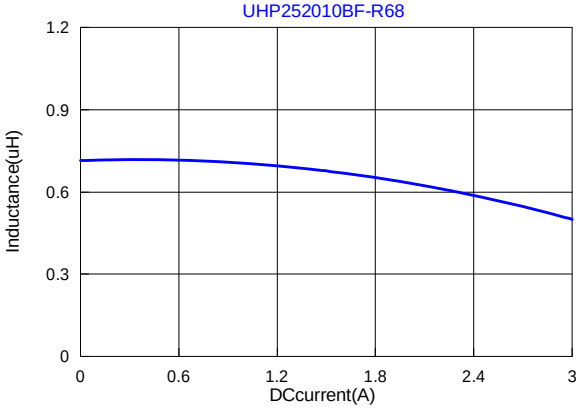
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

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

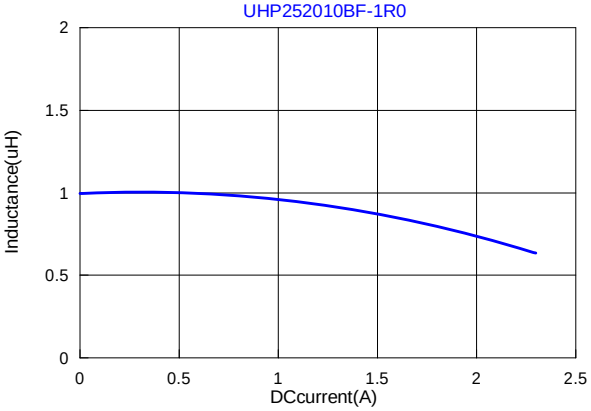
UHP252010BF-R47



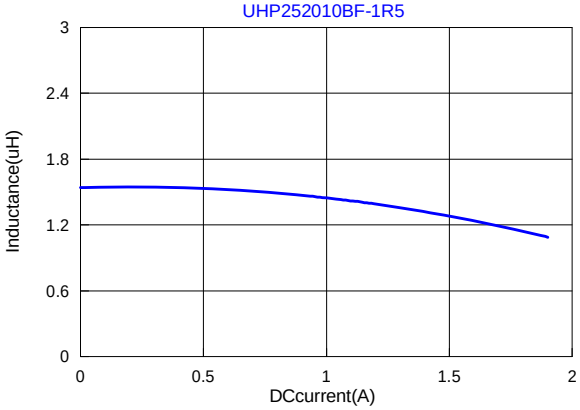
UHP252010BF-R68



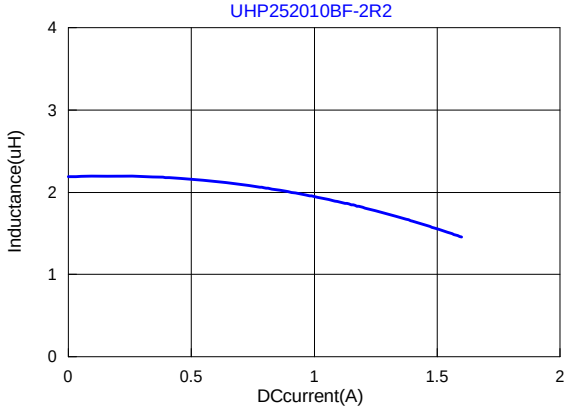
UHP252010BF-1R0



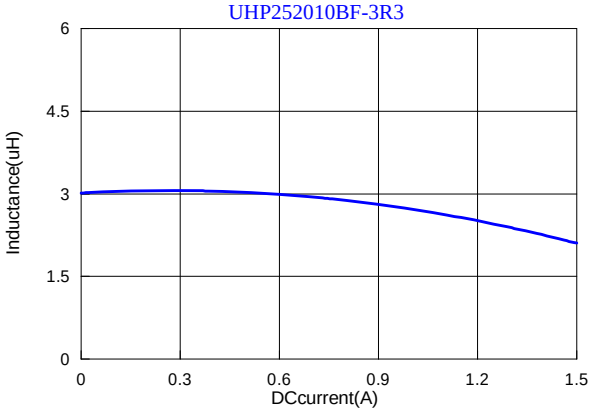
UHP252010BF-1R5



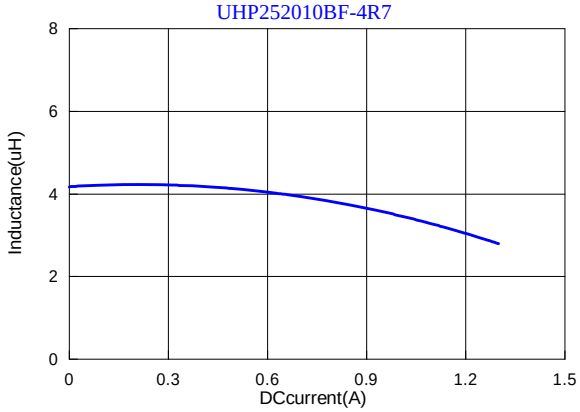
UHP252010BF-2R2



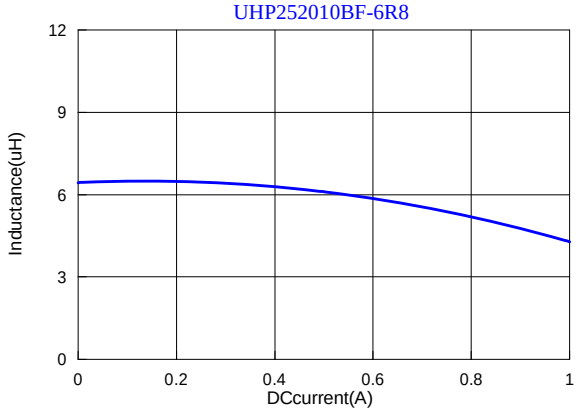
UHP252010BF-3R3



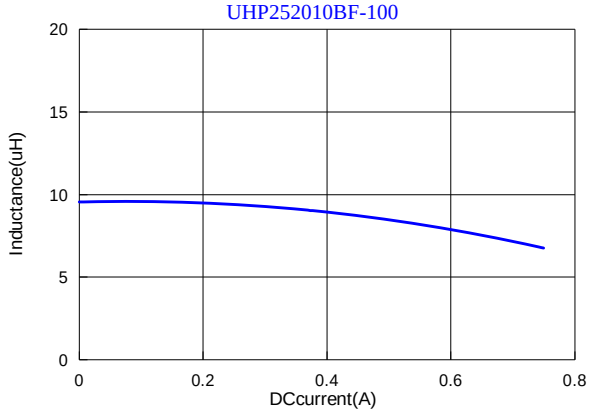
UHP252010BF-4R7



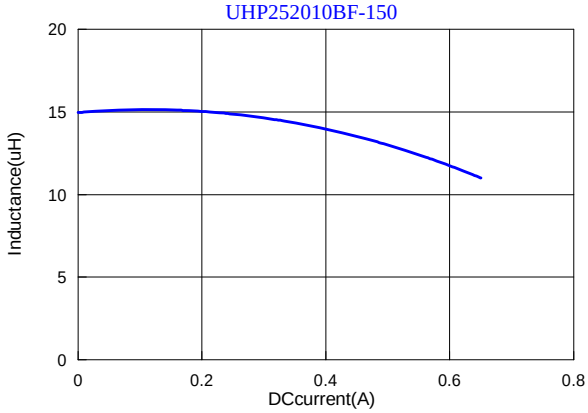
UHP252010BF-6R8



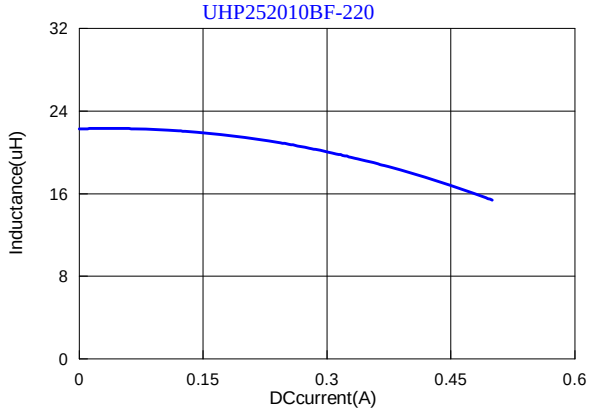
UHP252010BF-100



UHP252010BF-150



UHP252010BF-220



Power Inductor

UHP252012BF-SERIES

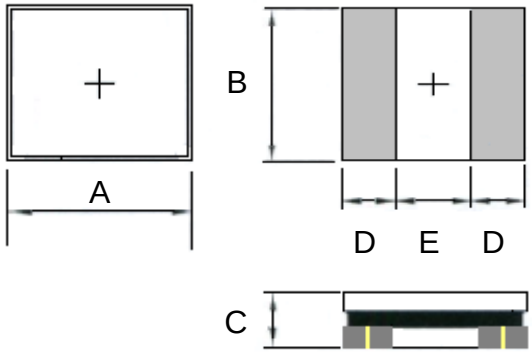
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP252012BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.2 max.	0.85 ref.	0.80 ref.

Units: mm

3. Part Numbering

UHP	252012	BF	-	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

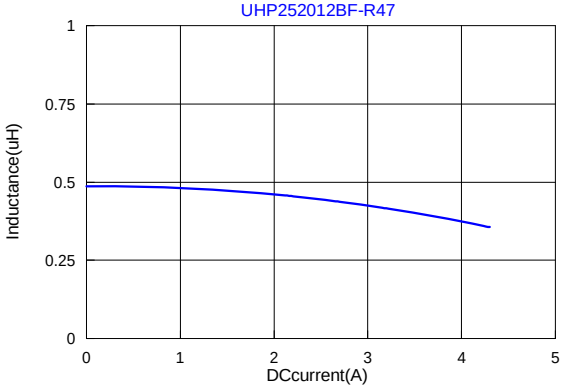
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I sat (A) Max.	I rms (A) typ	I rms (A) Max.
UHP252012BF-R47Y	0.47	±30%	0.1V/1M	0.028	4.00	3.60	3.70	3.35
UHP252012 BF-R68M	0.68	±20%	0.1V/1M	0.036	3.00	2.70	3.30	3.00
UHP252012 BF-1R0Y	1.0	±30%	0.1V/1M	0.049	2.70	2.45	2.60	2.30
UHP252012 BF-1R5Y	1.5	±30%	0.1V/1M	0.063	2.30	2.05	2.20	1.95
UHP252012 BF-2R2M	2.2	±20%	0.1V/1M	0.080	2.15	1.95	1.85	1.65
UHP252012 BF-3R3M	3.3	±20%	0.1V/1M	0.120	1.70	1.50	1.45	1.30
UHP252012 BF-4R7M	4.7	±20%	0.1V/1M	0.176	1.50	1.35	1.20	1.05
UHP252012 BF-6R8M	6.8	±20%	0.1V/1M	0.250	1.15	1.00	1.00	0.90
UHP252012 BF-100M	10	±20%	0.1V/1M	0.410	0.85	0.75	0.75	0.65
UHP252012 BF-150M	15	±20%	0.1V/1M	0.540	0.63	0.56	0.60	0.54
UHP252012 BF-220M	22	±20%	0.1V/1M	0.850	0.56	0.50	0.50	0.45

Note:

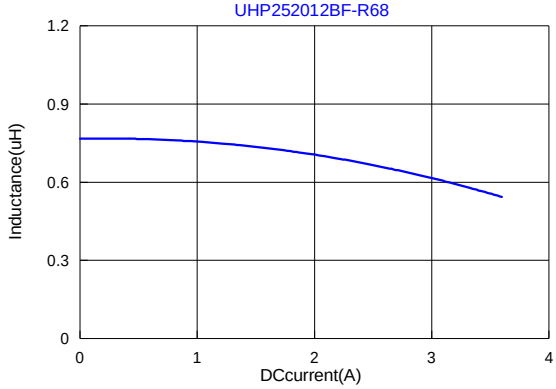
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

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

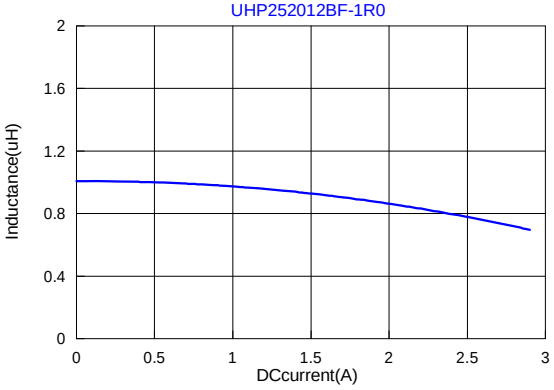
UHP252012BF-R47



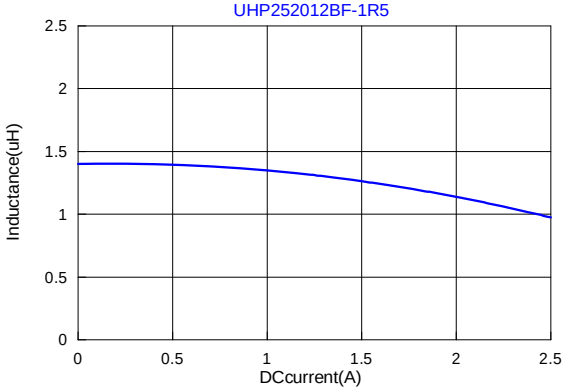
UHP252012BF-R68



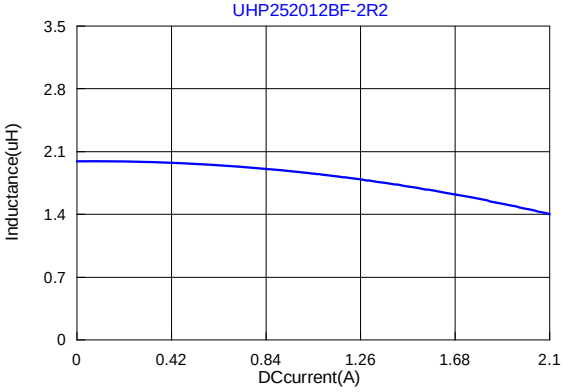
UHP252012BF-1R0



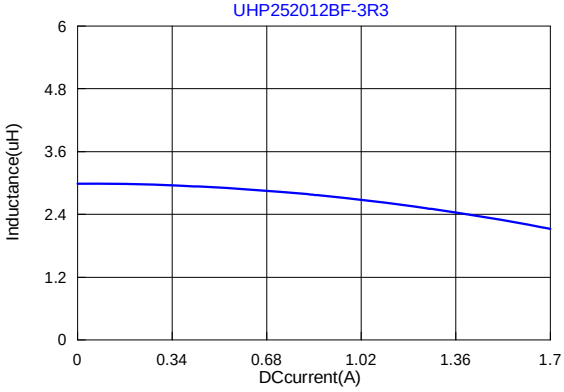
UHP252012BF-1R5



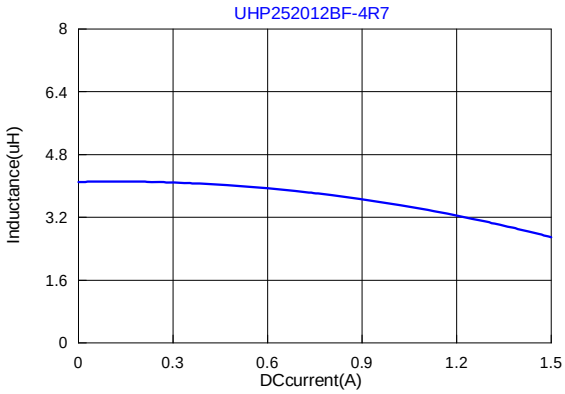
UHP252012BF-2R2



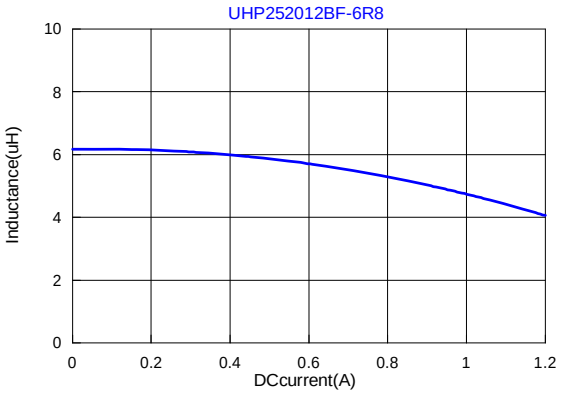
UHP252012BF-3R3

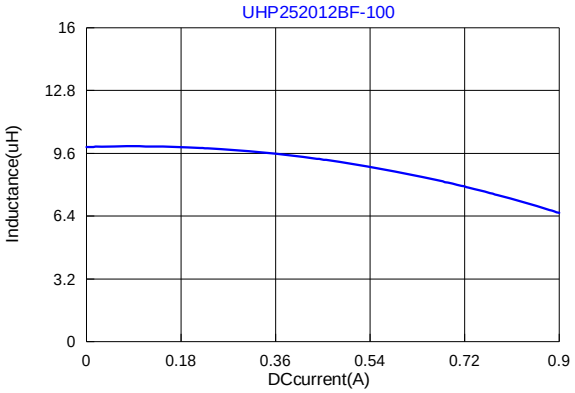


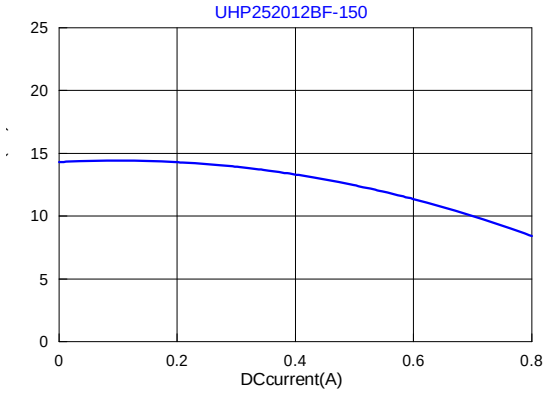
UHP252012BF-4R7

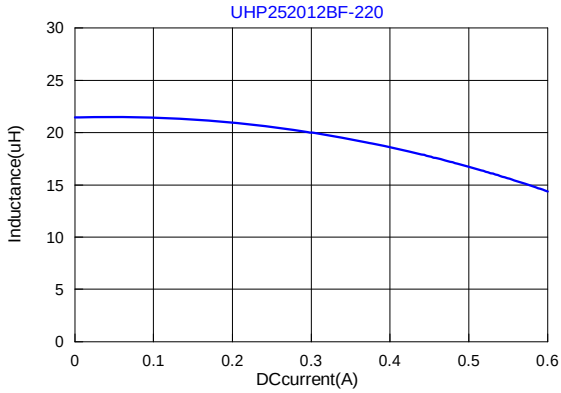


UHP252012BF-6R8




UHP252012BF-100
Inductance(uH)
16
12.8
9.6
6.4
3.2
0
0
0.18
0.36
0.54
0.72
0.9
DCcurrent(A)


UHP252012BF-150
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
DCcurrent(A)


UHP252012BF-220
Inductance(uH)
30
25
20
15
10
5
0
0
0.1
0.2
0.3
0.4
0.5
0.6
DCcurrent(A)