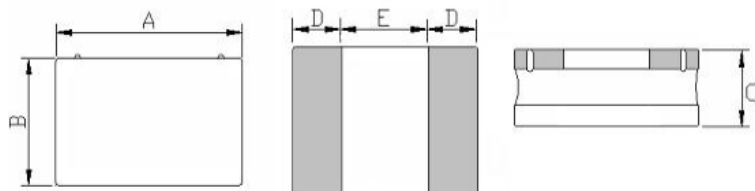


1. Features

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°C (Including self - temperature rise)



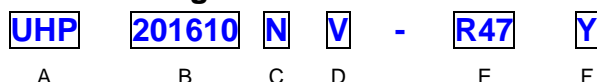
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP201610NV	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0max.	0.60 ref.	0.80 ref.

Units: mm

3. Part Numbering



- A: Series
 B: Dimension
 C: Lead Free
 D: Category Code
 E: Inductance
 F: Inductance Tolerance
- Material
 V=Vehicle
 R47=0.47uH
 Y=±30% ,M=±20%

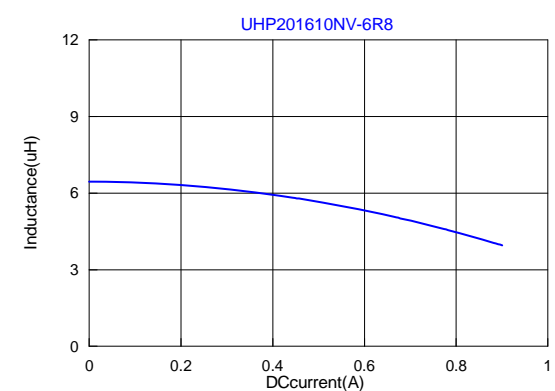
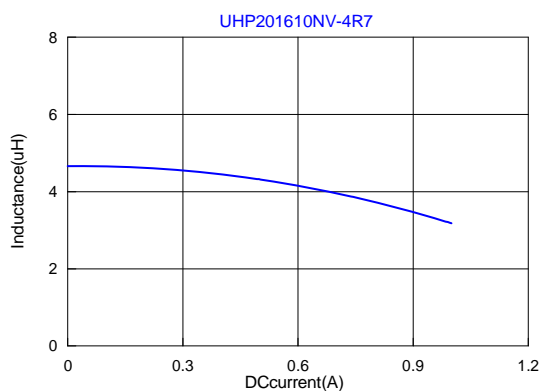
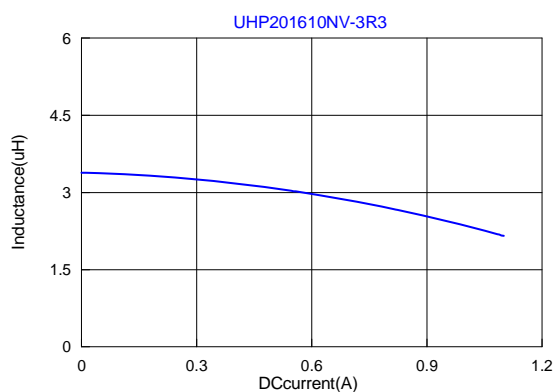
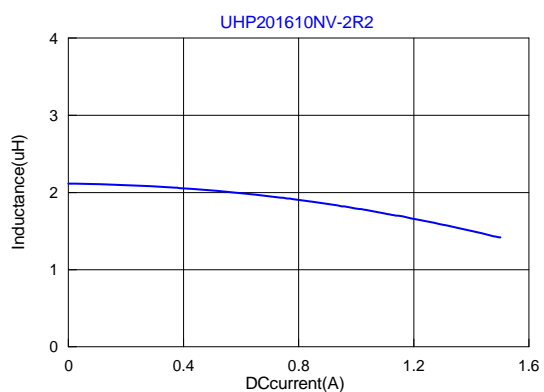
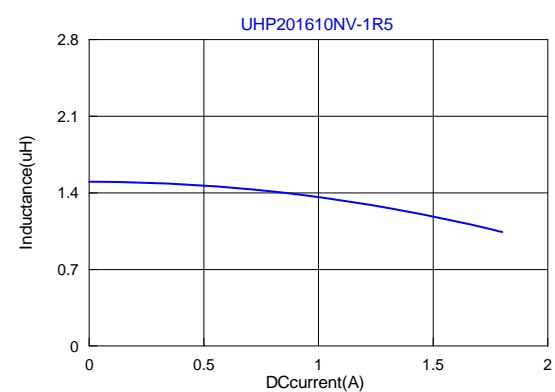
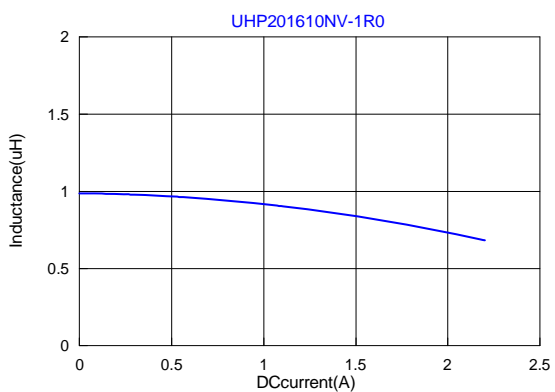
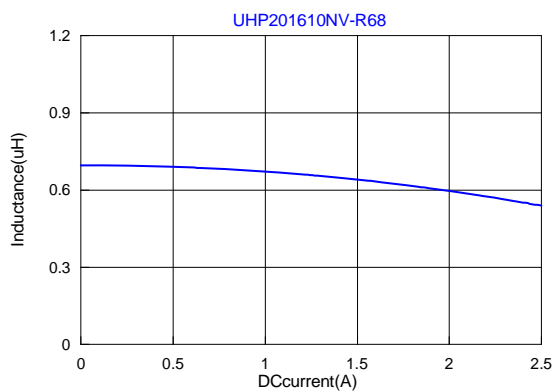
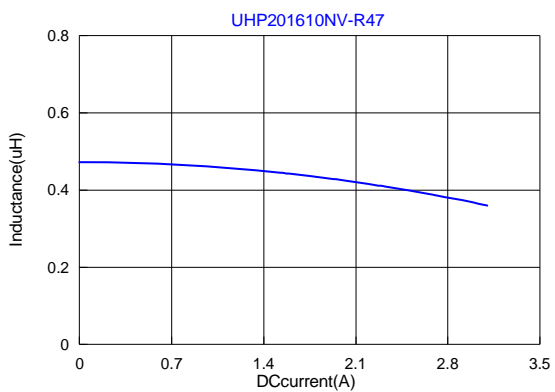
4. Specification

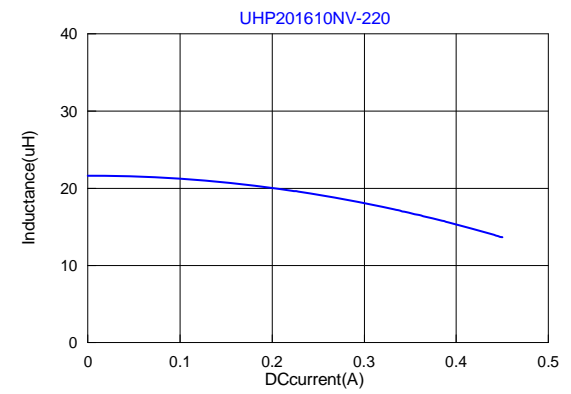
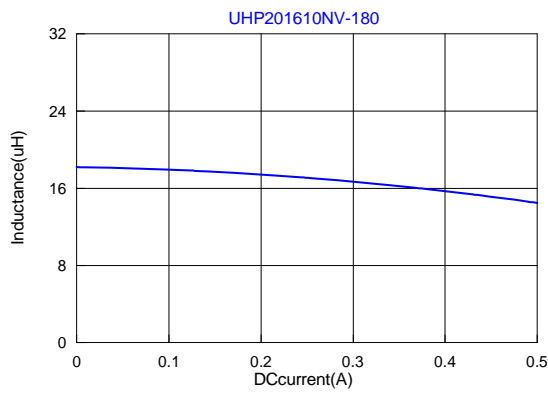
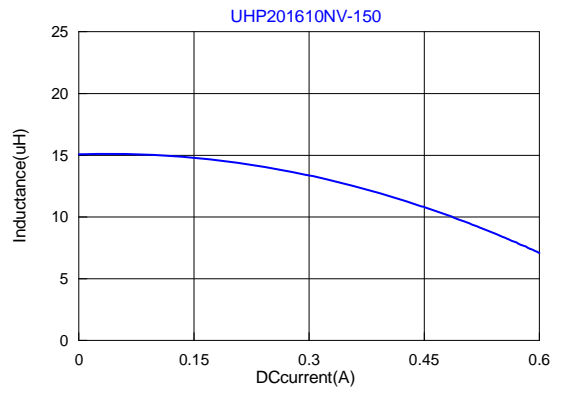
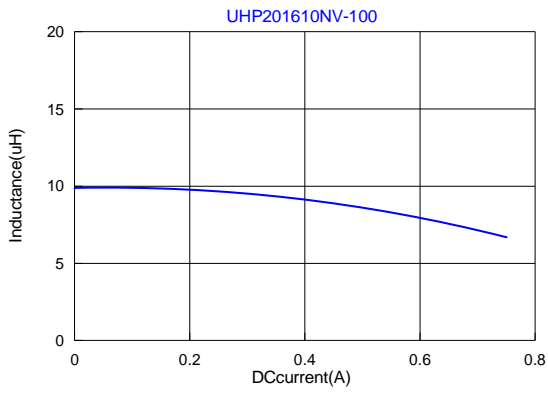
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I sat (A) Max.	I rms (A) typ.	I rms (A) Max.
UHP201610NV-R47Y	0.47	±30%	0.1V/1M	0.044	3.00	2.70	2.60	2.35
UHP201610NV-R68Y	0.68	±30%	0.1V/1M	0.062	2.45	2.00	2.25	2.05
UHP201610NV-1R0Y	1.0	±30%	0.1V/1M	0.080	1.95	1.80	1.75	1.60
UHP201610NV-1R5Y	1.5	±30%	0.1V/1M	0.130	1.65	1.46	1.40	1.26
UHP201610NV-2R2M	2.2	±20%	0.1V/1M	0.145	1.45	1.26	1.35	1.20
UHP201610NV-3R3M	3.3	±20%	0.1V/1M	0.245	1.05	0.90	1.05	0.95
UHP201610NV-4R7M	4.7	±20%	0.1V/1M	0.360	0.85	0.77	1.00	0.90
UHP201610NV-6R8M	6.8	±20%	0.1V/1M	0.500	0.80	0.72	0.70	0.55
UHP201610NV-100M	10	±20%	0.1V/1M	0.720	0.62	0.55	0.50	0.45
UHP201610NV-150M	15	±20%	0.1V/1M	1.400	0.50	0.45	0.40	0.36
UHP201610NV-180M	18	±20%	0.1V/1M	1.800	0.45	0.40	0.38	0.34
UHP201610NV-220M	22	±20%	0.1V/1M	2.000	0.43	0.38	0.30	0.27

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C.)



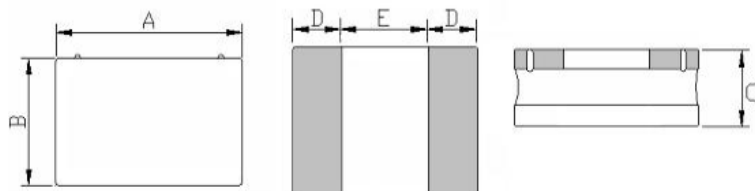


1. Features

1. This specification applies Low Profile Power Inductors.
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3. High reliability -Reliability tests comply with AEC-Q200.
4. Operating temperature-55~+125°C (Including self - temperature rise)



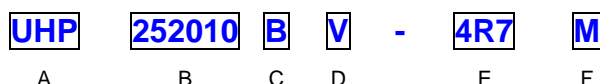
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP252010BV	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.0max.	0.85 ref.	0.80 ref.

Units: mm

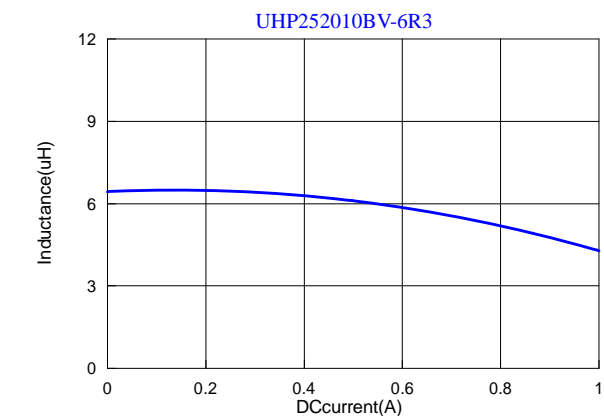
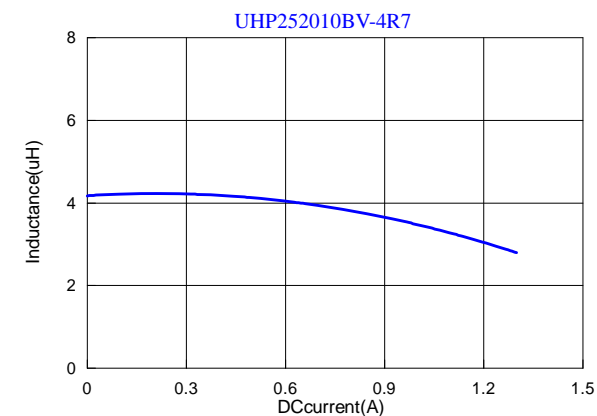
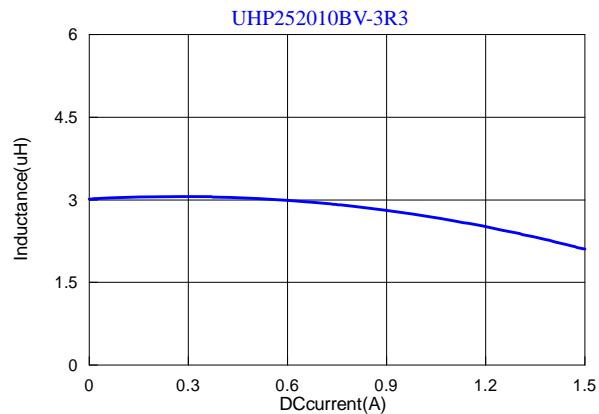
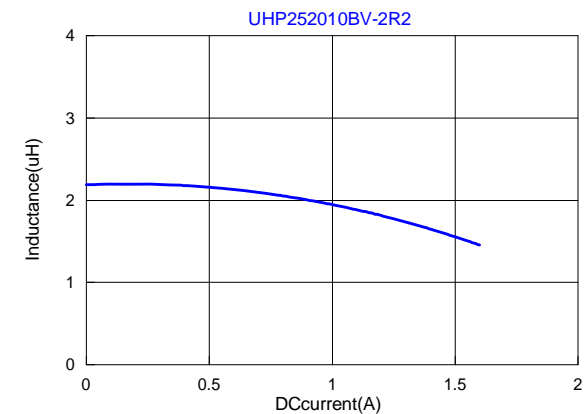
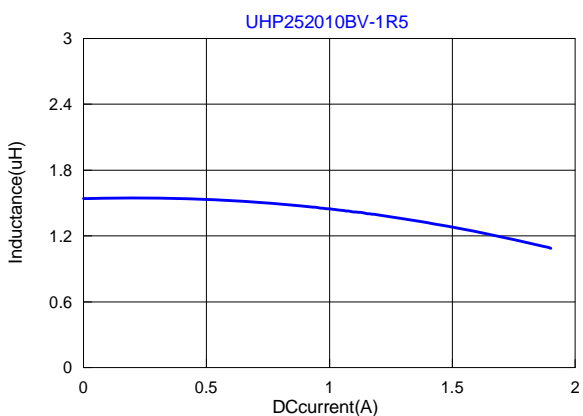
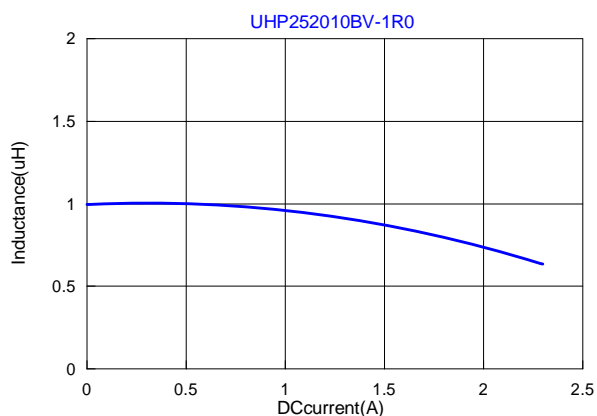
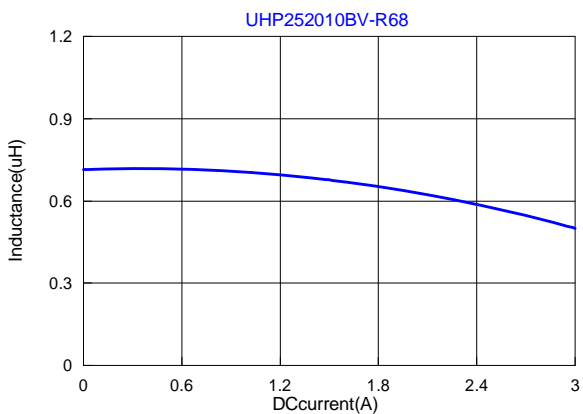
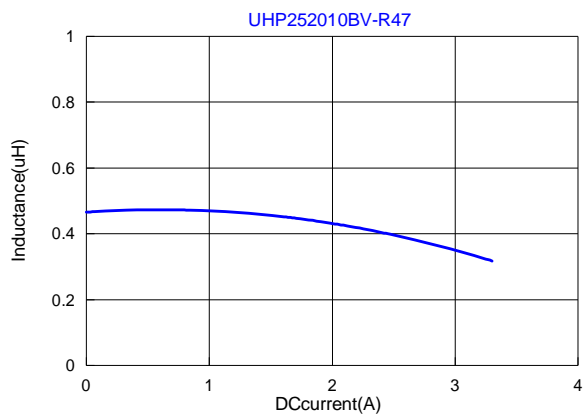
3. Part Numbering

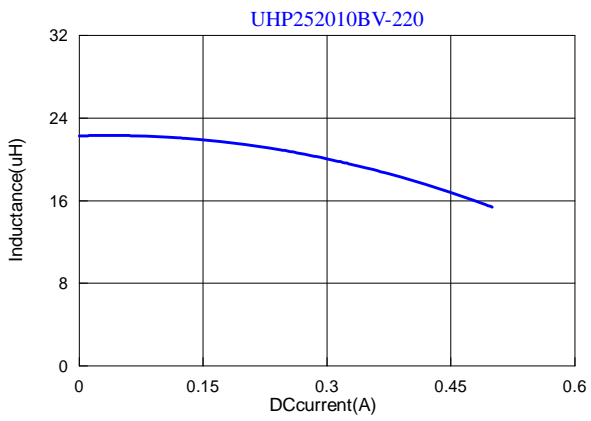
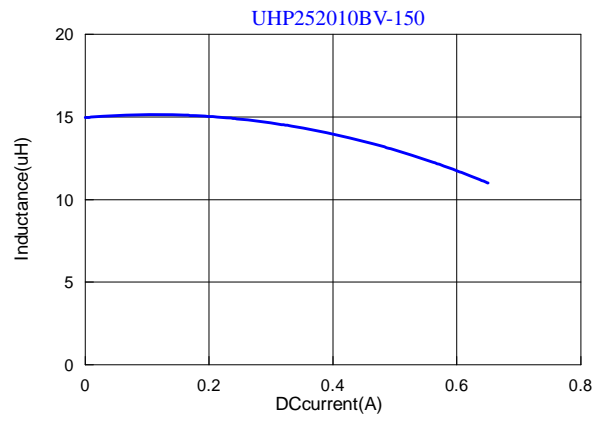
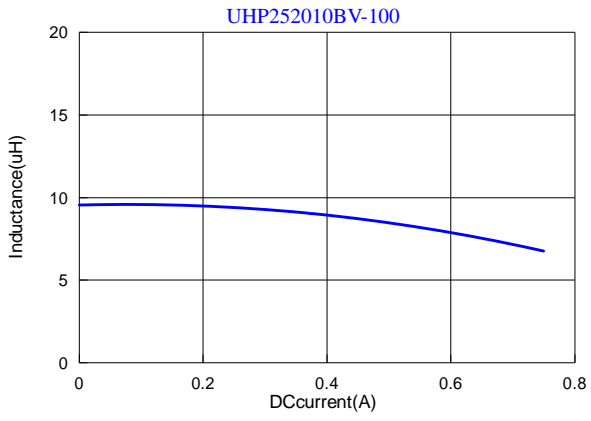


- A: Series
 B: Dimension
 C: Lead Free
 D: Category Code
 E: Inductance
 F: Inductance Tolerance
- Material
 V=Vehicle
 4R7=4.7uH
 M=±20% Y=±30%

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.
UHP252010BV-R47Y	0.47	±30%	0.1V/1M	0.030	2.85	2.57	2.80	2.50
UHP252010BV-R68Y	0.68	±30%	0.1V/1M	0.039	2.70	2.45	2.45	2.20
UHP252010BV-1R0Y	1.0	±30%	0.1V/1M	0.055	2.45	2.05	2.20	1.80
UHP252010BV-1R5Y	1.5	±30%	0.1V/1M	0.090	1.80	1.70	1.70	1.55
UHP252010BV-2R2M	2.2	±20%	0.1V/1M	0.114	1.60	1.55	1.55	1.40
UHP252010BV-3R3M	3.3	±20%	0.1V/1M	0.170	1.30	1.10	1.25	1.10
UHP252010BV-4R7M	4.7	±20%	0.1V/1M	0.250	1.10	0.95	1.05	0.92
UHP252010BV-6R8M	6.8	±20%	0.1V/1M	0.370	0.95	0.80	0.85	0.76
UHP252010BV-100M	10	±20%	0.1V/1M	0.470	0.75	0.65	0.75	0.67
UHP252010BV-150M	15	±20%	0.1V/1M	0.750	0.55	0.45	0.55	0.50
UHP252010BV-220M	22	±20%	0.1V/1M	1.120	0.50	0.40	0.50	0.45



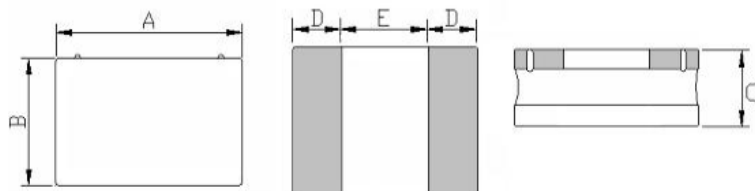


1. Features

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3. High reliability -Reliability tests comply with AEC-Q200.
4. Operating temperature-55~+125°C (Including self - temperature rise)



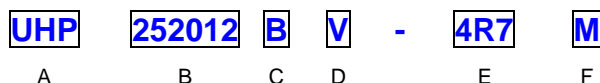
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP252012BV	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



A: Series

B: Dimension

C: Lead Free

D: Category Code

E: Inductance

F: Inductance Tolerance

Material

V=Vehicle

4R7=4.7uH

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.
UHP252012BV-R47Y	0.47	±30%	0.1V/1M	0.028	4.00	3.60	3.70	3.35
UHP252012 BV-R68Y	0.68	±30%	0.1V/1M	0.036	3.00	2.70	3.30	3.00
UHP252012 BV-1R0Y	1.0	±30%	0.1V/1M	0.049	2.70	2.45	2.60	2.30
UHP252012 BV-1R5Y	1.5	±30%	0.1V/1M	0.063	2.30	2.05	2.20	1.95
UHP252012 BV-2R2M	2.2	±20%	0.1V/1M	0.080	2.15	1.95	1.85	1.65
UHP252012 BV-3R3M	3.3	±20%	0.1V/1M	0.120	1.70	1.50	1.45	1.30
UHP252012 BV-4R7M	4.7	±20%	0.1V/1M	0.176	1.50	1.35	1.20	1.05
UHP252012 BV-6R8M	6.8	±20%	0.1V/1M	0.250	1.15	1.00	1.00	0.90
UHP252012 BV-100M	10	±20%	0.1V/1M	0.410	0.85	0.75	0.75	0.65
UHP252012 BV-150M	15	±20%	0.1V/1M	0.540	0.63	0.56	0.60	0.54
UHP252012 BV-220M	22	±20%	0.1V/1M	0.850	0.56	0.50	0.50	0.45

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°CI_{rms} : Based on temperature rise (ΔT : 40°C.) Max

