HIGH CURRENT POWER INDUCTORS / AMPI CN Type Series

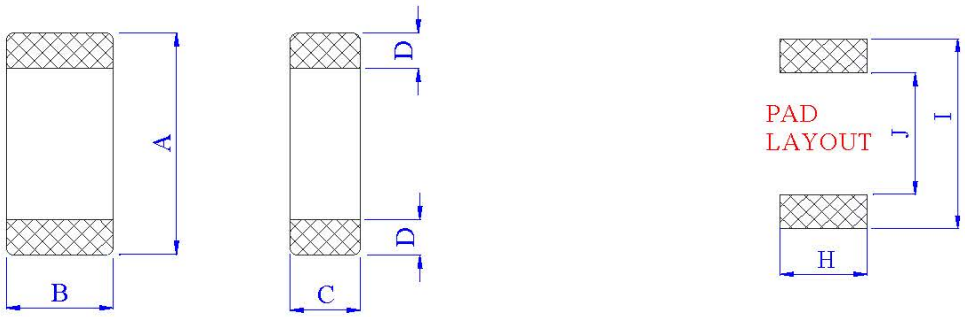
● Features

1. Monolithic, magnetically shielded
2. Compact high saturation current
3. Minimum height=1.0mm Max.

● Applications

1. Smartphone
2. Tablet PC
3. Hard Disk of ultrabook
4. LTE module
5. Portable device

● Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMPI201210CN	2.0 ± 0.2	1.25 ± 0.2	1.0 MAX.	0.5 ± 0.3	1.0~1.4	2.3~2.9	0.8~1.2
AMPI201610CN	2.0 ± 0.2	1.6 ± 0.2	1.0 MAX.	0.5 ± 0.3	1.6	2.00	0.9
AMPI201612CN	2.0 ± 0.2	1.6 ± 0.2	1.2 MAX.	0.5 ± 0.3	1.6	2.00	0.9
AMPI252010CN	2.5 ± 0.2	2.0 ± 0.2	1.0 MAX.	0.6 ± 0.2	2.0	2.80	1.2
AMPI252012CN	2.5 ± 0.2	2.0 ± 0.2	1.2 MAX.	0.6 ± 0.2	2.0	2.80	1.2
AMPI322510CN	3.2 ± 0.3	2.5 ± 0.3	1.0 MAX.	0.5 ± 0.2	2.5	3.20	1.7
AMPI322512CN	3.2 ± 0.3	2.5 ± 0.3	1.2 MAX.	0.5 ± 0.2	2.5	3.20	1.7

■ PRODUCT IDENTIFICATION

A M P I 2 0 1 2 1 0 △ △ △ 2 R 2 M T △

① Product: AMPI

② Dimension: 201210/201610/201612; 252010/252012; 322510/322512

③ Type: CN△: Type Code

④ Inductance(uH): R47 0.47; 2R2 2.2

⑤ Tolerance: M ±20%; N ±25%

⑥ Package: T Taping reel; B Bulk

⑦ Special product: "A~"Z"

◆ AMPI201210CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI201210CNR33□T	0.33	2	75	3.6	2.4
AMPI201210CNR47□T	0.47	2	80	3.2	2.2
AMPI201210CNR68□T	0.68	2	105	3.0	2.0
AMPI201210CN1R0□T	1.0	2	155	2.0	1.6

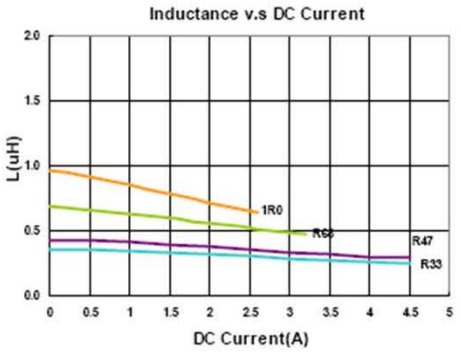
NOTE：

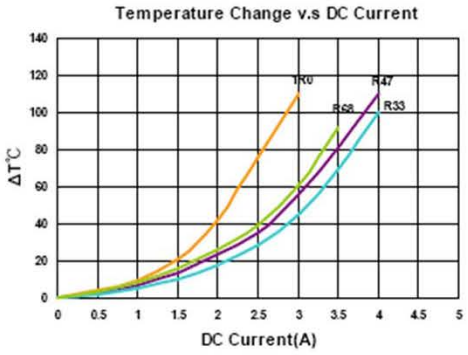
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)





◆ AMPI201610CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI201610CNR24□T	0.24	2	40	4.2	4.0
AMPI201610CNR33□T	0.33	2	48	4.0	3.5
AMPI201610CNR47□T	0.47	2	54	3.2	3.0
AMPI201610CNR56□T	0.56	2	59	2.8	2.8
AMPI201610CNR68□T	0.68	2	72	2.7	2.4
AMPI201610CN1R0□T	1.0	2	96	2.2	2.0
AMPI201610CN1R5□T	1.5	2	150	2.1	1.6
AMPI201610CN2R2□T	2.2	2	204	2.0	1.3

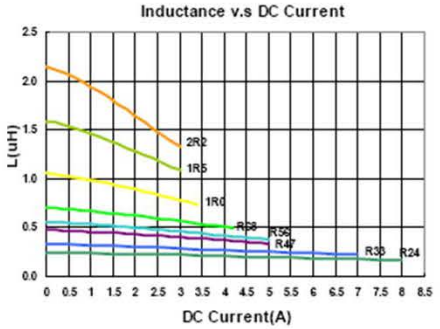
NOTE：

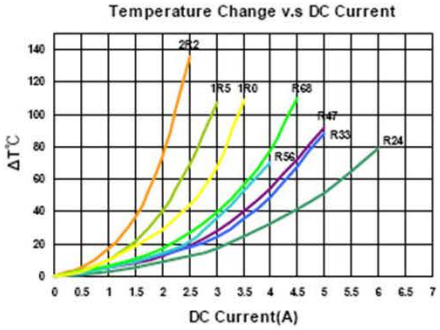
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)





◆ AMPI201612CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI201612CNR24□T	0.24	2	35	5.5	4.2
AMPI201612CNR47□T	0.47	2	52	3.8	3.2
AMPI201612CNR68□T	0.68	2	70	3.3	2.6
AMPI201612CN1R0□T	1.0	2	82	3.1	2.3
AMPI201612CN1R5□T	1.5	2	120	2.6	2.2
AMPI201612CN2R2□T	2.2	2	195	2.0	1.3

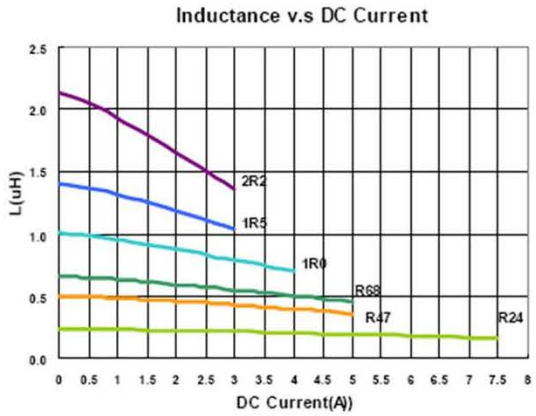
NOTE：

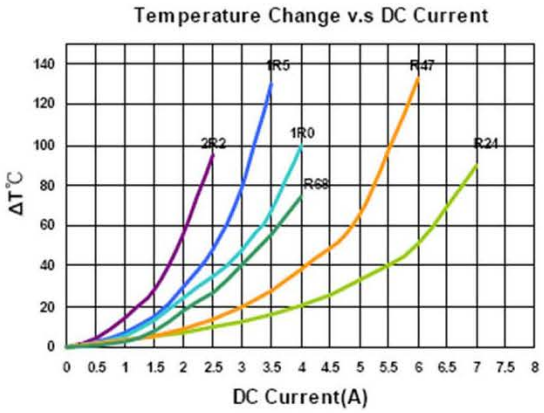
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)





◆ AMPI252010CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI252010CNR24□T	0.24	2	40	7.5	4.5
AMPI252010CNR47□T	0.47	2	46	5.2	3.1
AMPI252010CNR68□T	0.68	2	65	3.8	2.9
AMPI252010CN1R0□T	1.0	2	78	3.4	2.5
AMPI252010CN1R5□T	1.5	2	105	3.2	2.2
AMPI252010CN2R2□T	2.2	2	156	2.6	1.4

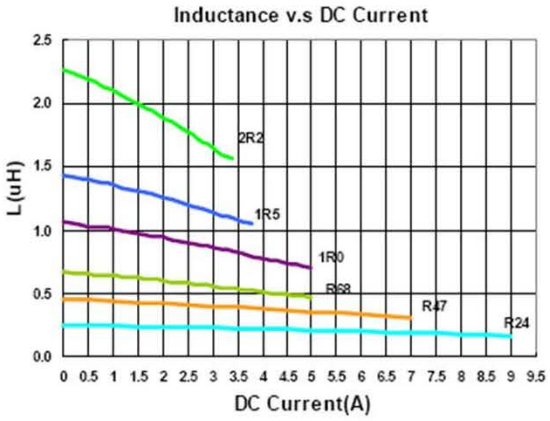
NOTE：

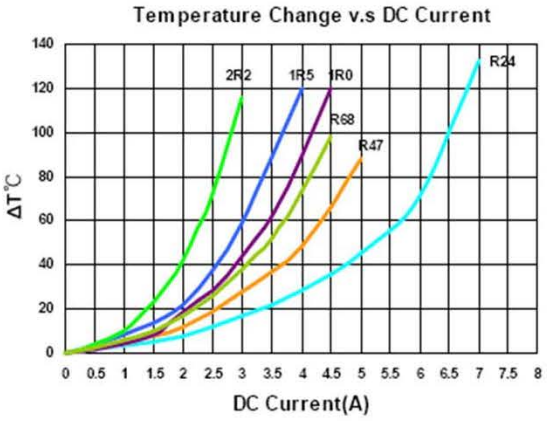
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)





◆ AMPI252012CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI252012CNR33□T	0.33	2	35	6.8	4.0
AMPI252012CNR47□T	0.47	2	39	6.2	3.7
AMPI252012CNR68□T	0.68	2	46	5.5	3.3
AMPI252012CN1R0□T	1.0	2	59	4.0	3.0
AMPI252012CN1R5□T	1.5	2	70	3.4	2.5
AMPI252012CN2R2□T	2.2	2	115	3.3	2.0
AMPI252012CN3R3□T	3.3	2	158	2.5	1.8
AMPI252012CN4R7□T	4.7	2	240	2.1	1.7

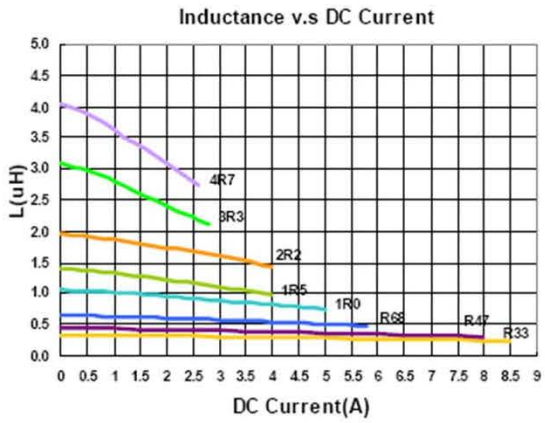
NOTE：

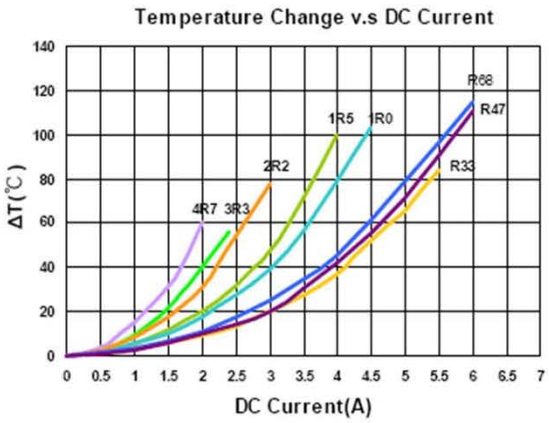
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)





◆ AMPI322510CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI322510CNR47□T	0.47	2	37	5.8	3.6
AMPI322510CN1R0□T	1.0	2	56	4.0	3.0
AMPI322510CN1R5□T	1.5	2	75	3.4	2.6
AMPI322510CN2R2□T	2.2	2	108	2.7	2.2

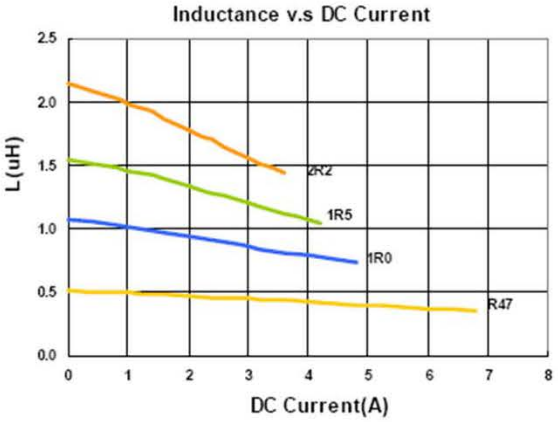
NOTE：

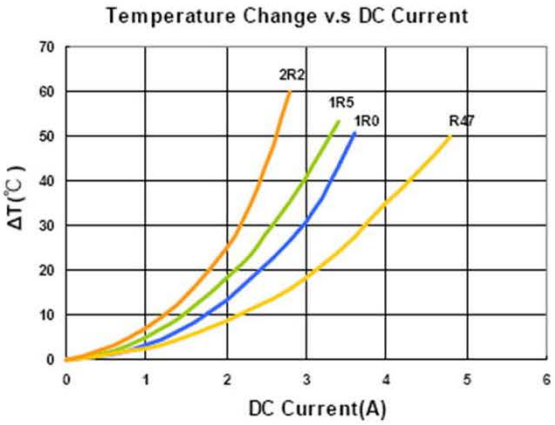
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)





◆ AMPI322512CN Series Specification：

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AMPI322512CNR47□T	0.47	2	27	8.0	5.0
AMPI322512CN1R0□T	1.0	2	42	5.8	3.8
AMPI322512CN2R2□T	2.2	2	85	3.6	2.4

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)