

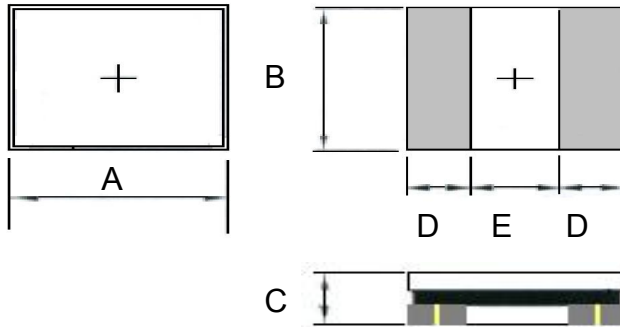
Power Inductor	SMDU201610NF-Series
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1. Features

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



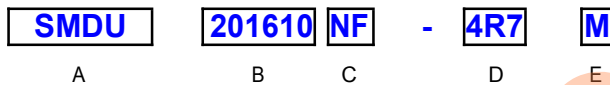
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SMDU201610NF	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: Inductance

E: Inductance Tolerance

Material

4R7=4.7uH

M=±20% : Y=±30%

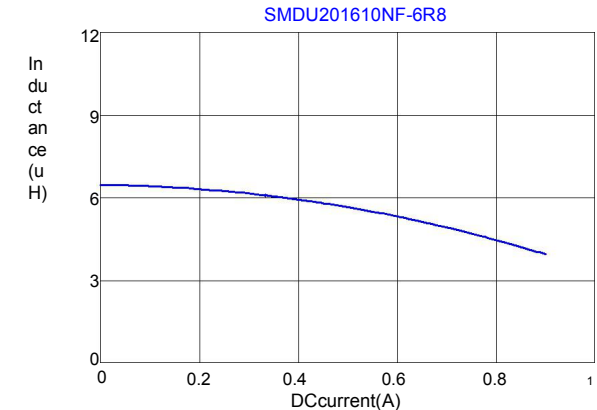
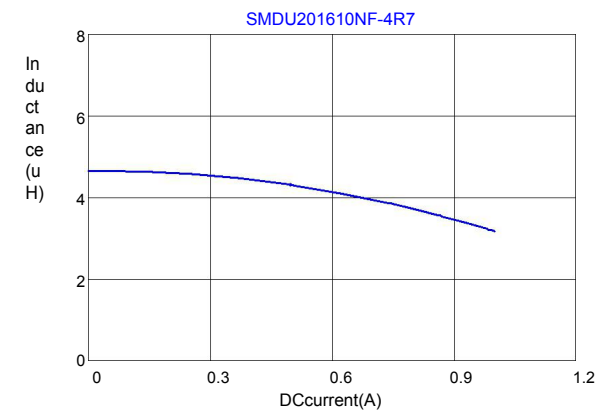
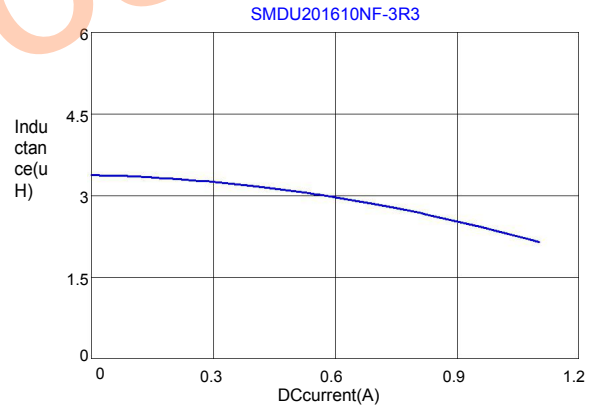
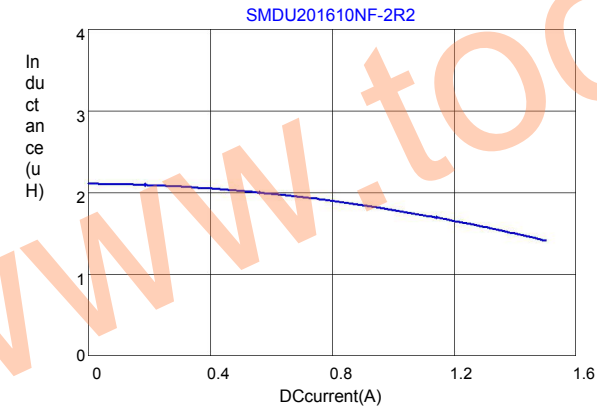
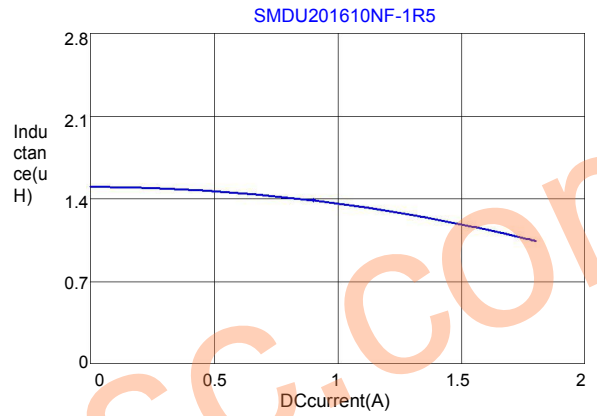
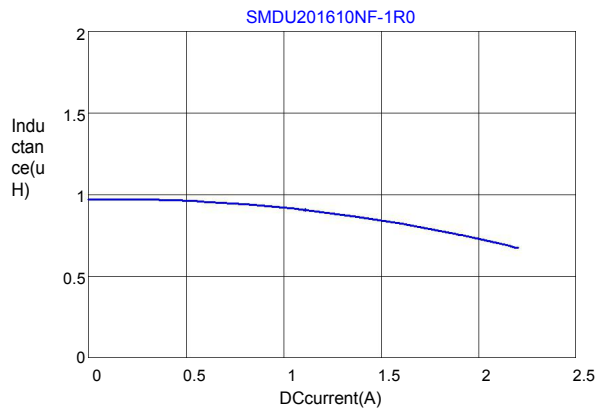
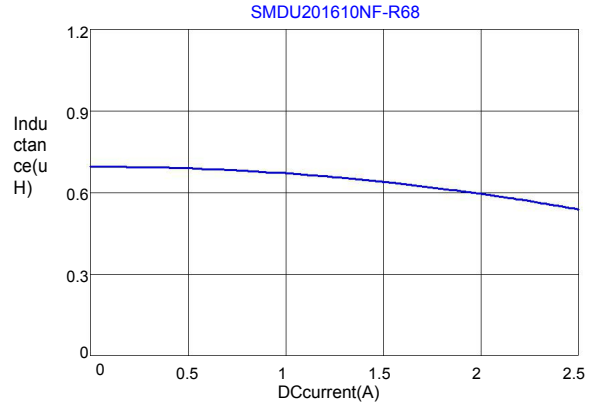
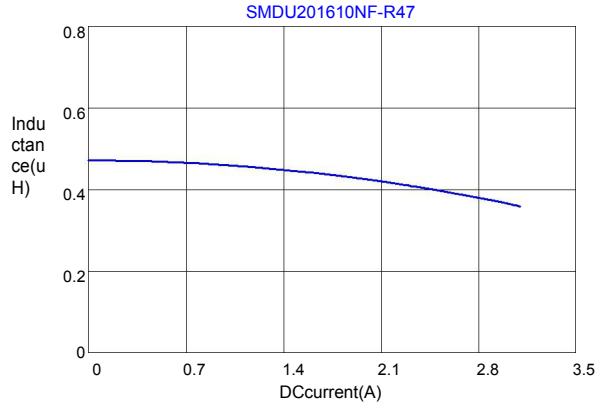
4. Specification

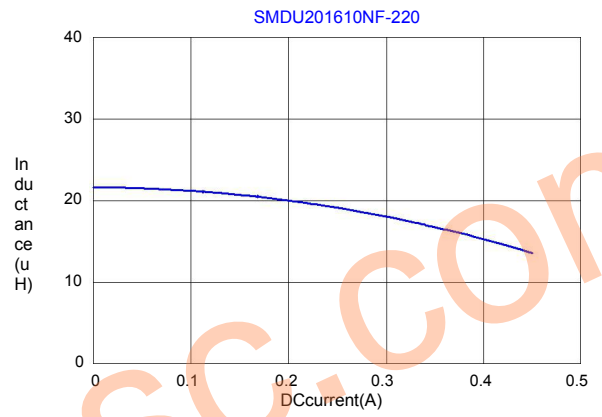
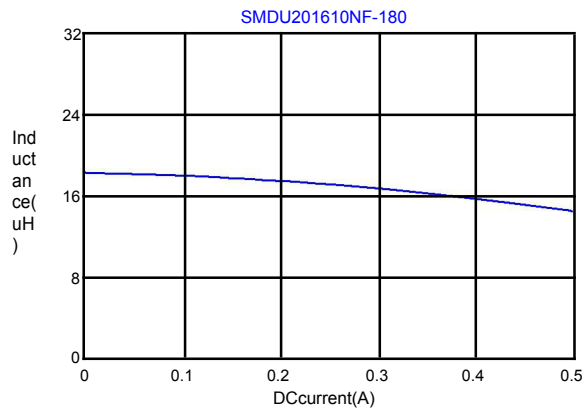
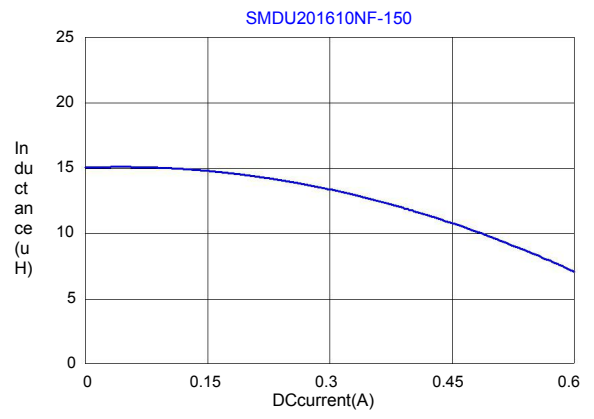
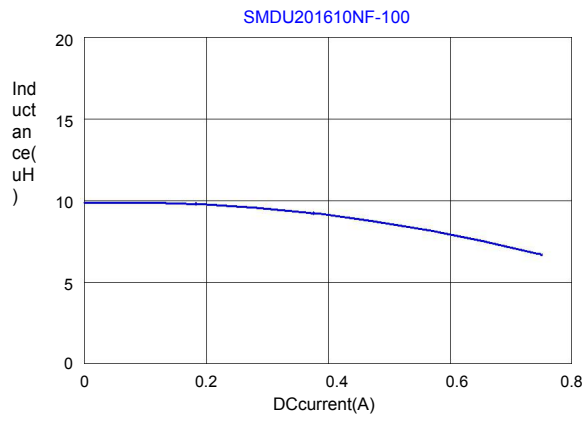
TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I sat (A) Max.	I rms (A) typ.	I rms (A) Max.
SMDU201610NF-R47Y	0.47	±30%	0.1V/1M	0.044	3.00	2.70	2.60	2.35
SMDU201610NF-R68Y	0.68	±30%	0.1V/1M	0.062	2.45	2.00	2.25	2.05
SMDU201610NF-1R0Y	1.0	±30%	0.1V/1M	0.080	1.95	1.80	1.75	1.60
SMDU201610NF-1R5Y	1.5	±30%	0.1V/1M	0.130	1.65	1.46	1.40	1.26
SMDU201610NF-2R2M	2.2	±20%	0.1V/1M	0.145	1.45	1.26	1.35	1.20
SMDU201610NF-3R3M	3.3	±20%	0.1V/1M	0.245	1.05	0.90	1.05	0.95
SMDU201610NF-4R7M	4.7	±20%	0.1V/1M	0.360	0.85	0.77	1.00	0.90
SMDU201610NF-6R8M	6.8	±20%	0.1V/1M	0.500	0.80	0.72	0.70	0.55
SMDU201610NF-100M	10	±20%	0.1V/1M	0.720	0.62	0.55	0.50	0.45
SMDU201610NF-150M	15	±20%	0.1V/1M	1.400	0.50	0.45	0.40	0.36
SMDU201610NF-180M	18	±20%	0.1V/1M	1.800	0.45	0.40	0.38	0.34
SMDU201610NF-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.)



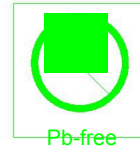


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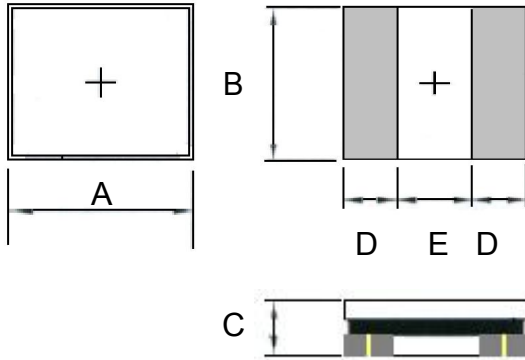
Power Inductor **SMDU252010BF-SERIES**

1. Features

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



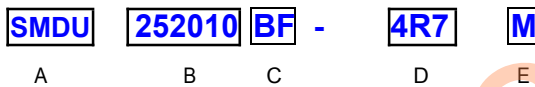
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SMDU252010BF	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: Inductance

E: Inductance Tolerance

Material

4R7=4.7uH

M=±20% Y=±30%

4. Specification

TOCOET 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.
SMDU252010BF-R47Y	0.47	±30%	0.1V/1M	0.030	2.85	2.57	2.80	2.50
SMDU252010BF-R68Y	0.68	±30%	0.1V/1M	0.039	2.70	2.45	2.45	2.20
SMDU252010BF-1R0Y	1.0	±30%	0.1V/1M	0.055	2.45	2.05	2.20	1.80
SMDU252010BF-1R5Y	1.5	±30%	0.1V/1M	0.090	1.80	1.70	1.70	1.55
SMDU252010BF-2R2M	2.2	±20%	0.1V/1M	0.114	1.60	1.55	1.55	1.40
SMDU252010BF-3R3M	3.3	±20%	0.1V/1M	0.170	1.30	1.10	1.25	1.10
SMDU252010BF-4R7M	4.7	±20%	0.1V/1M	0.250	1.10	0.95	1.05	0.92
SMDU252010BF-6R8M	6.8	±20%	0.1V/1M	0.370	0.95	0.80	0.85	0.76
SMDU252010BF-100M	10	±20%	0.1V/1M	0.470	0.75	0.65	0.75	0.67
SMDU252010BF-150M	15	±20%	0.1V/1M	0.750	0.55	0.45	0.55	0.50
SMDU252010BF-220M	22	±20%	0.1V/1M	1.120	0.50	0.40	0.50	0.45

Note:

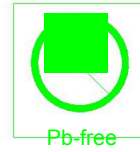
Isat : Based on inductance change ($\Delta L/L0 : \leq 30\%$) @ ambient temp. 25°C

Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}.$) Max

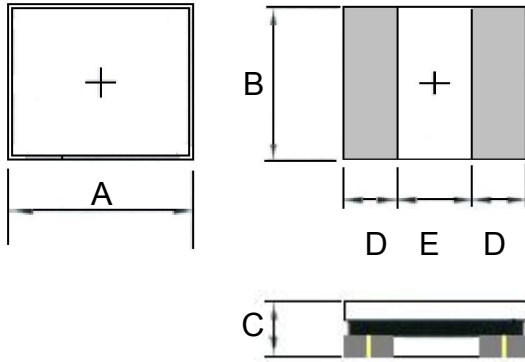
Power Inductor **SMDU252012BF-SERIES**

1. Features

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



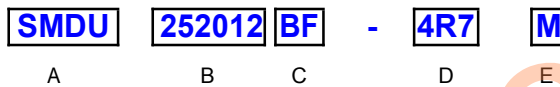
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SMDU252012 BF	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: Inductance
- E: Inductance Tolerance
- Material
- 4R7=4.7uH
- M=±20% Y=±30%

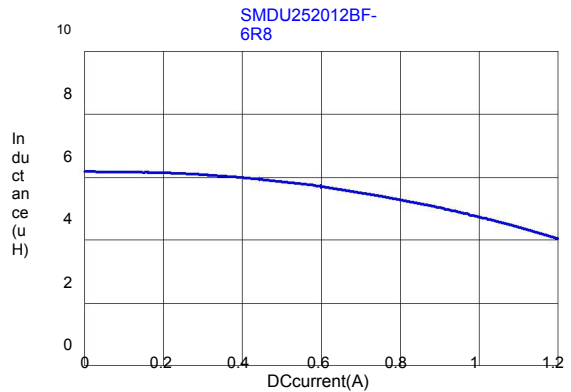
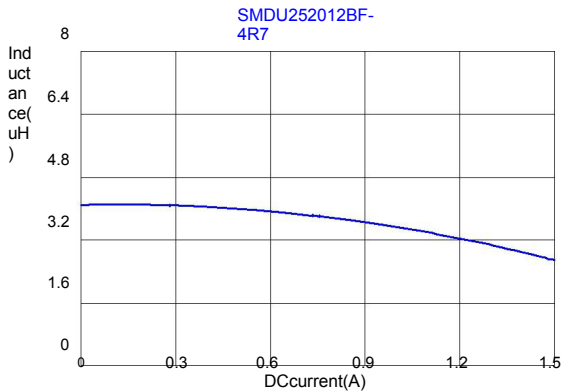
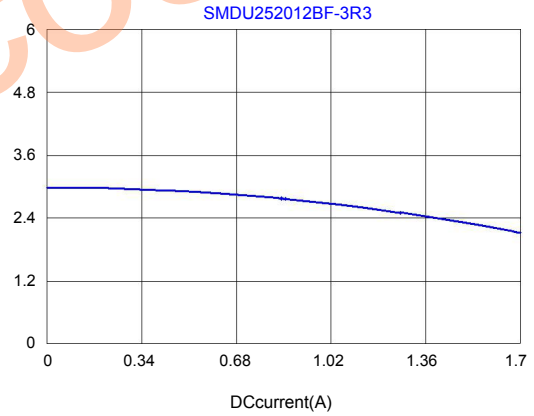
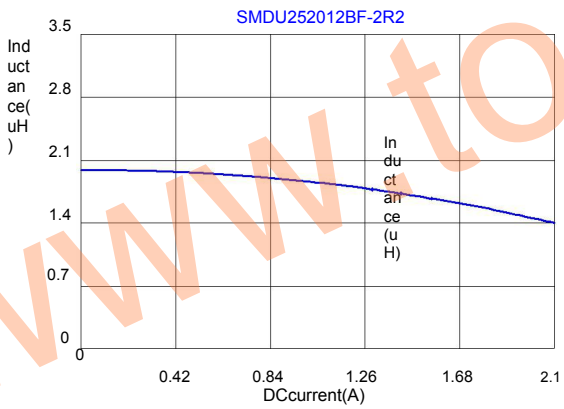
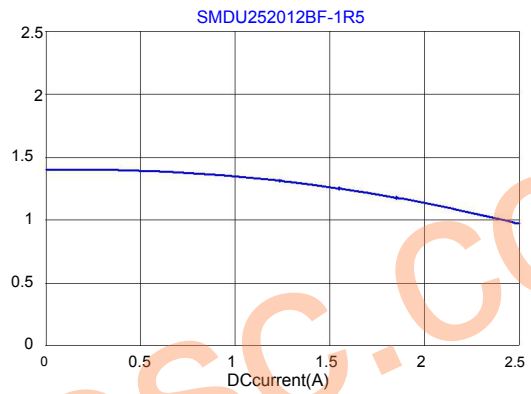
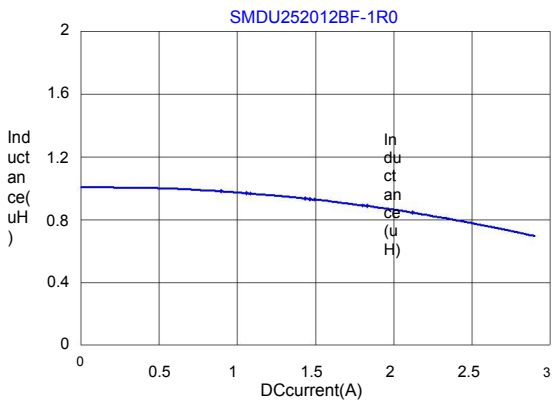
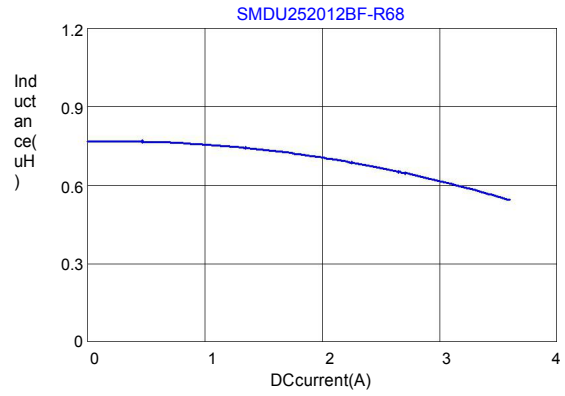
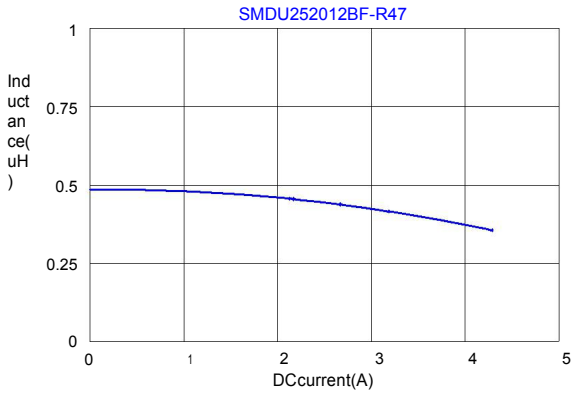
4. Specification

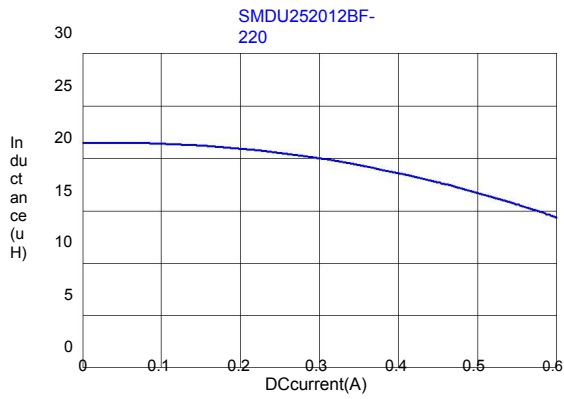
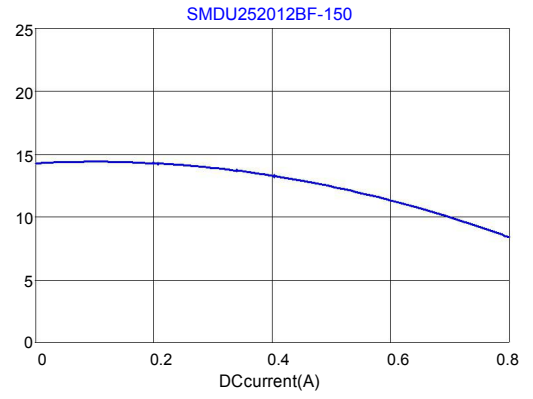
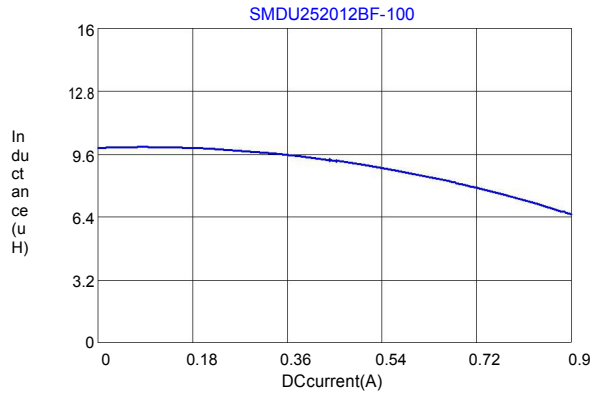
TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I sat (A) Max.	I rms (A) typ.	I rms (A) Max.
SMDU252012BF-R47Y	0.47	±30%	0.1V/1M	0.028	4.00	3.60	3.70	3.35
SMDU252012 BF-R68M	0.68	±20%	0.1V/1M	0.036	3.00	2.70	3.30	3.00
SMDU252012 BF-1R0Y	1.0	±30%	0.1V/1M	0.049	2.70	2.45	2.60	2.30
SMDU252012 BF-1R5Y	1.5	±30%	0.1V/1M	0.063	2.30	2.05	2.20	1.95
SMDU252012 BF-2R2M	2.2	±20%	0.1V/1M	0.080	2.15	1.95	1.85	1.65
SMDU252012 BF-3R3M	3.3	±20%	0.1V/1M	0.120	1.70	1.50	1.45	1.30
SMDU252012 BF-4R7M	4.7	±20%	0.1V/1M	0.176	1.50	1.35	1.20	1.05
SMDU252012 BF-6R8M	6.8	±20%	0.1V/1M	0.250	1.15	1.00	1.00	0.90
SMDU252012 BF-100M	10	±20%	0.1V/1M	0.410	0.85	0.75	0.75	0.65
SMDU252012 BF-150M	15	±20%	0.1V/1M	0.540	0.63	0.56	0.60	0.54
SMDU252012 BF-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°C

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





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