

SMD Power chokes- SPHN252010NF-SERIES

Features

1. This specification applies Low Profile Power Inductors
- 2.2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Applications

Smartphones, tablets and wearable devices
 DSC, camcorders
 DC / DC converters, etc.

Product Identification

SPHN 252010 NF -100M-TQ

SPHN: SERIES NAME

252010: DIMENSION SIZE CODE

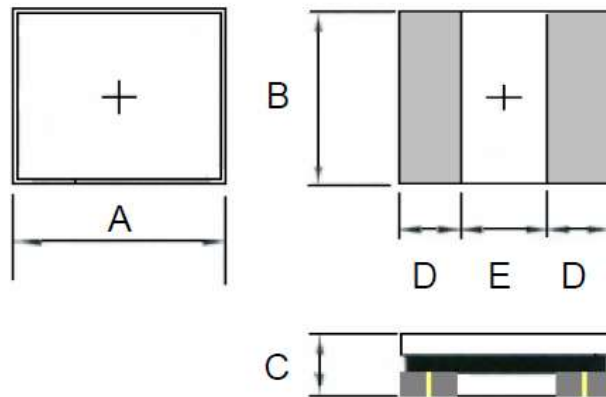
NF: CORE TYPE

100: INDUCTANCE CODE.

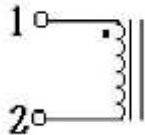
M: TOLERANCE, K=10% M=20%.±30%(N)

TQ: Material CODE

Dimensions (mm)



SCHEMATIC



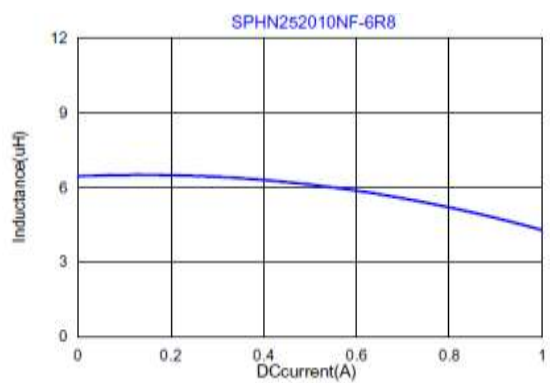
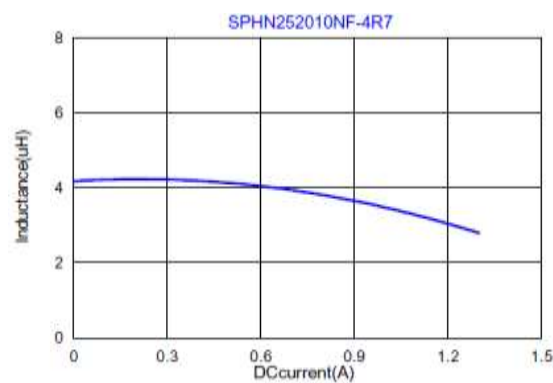
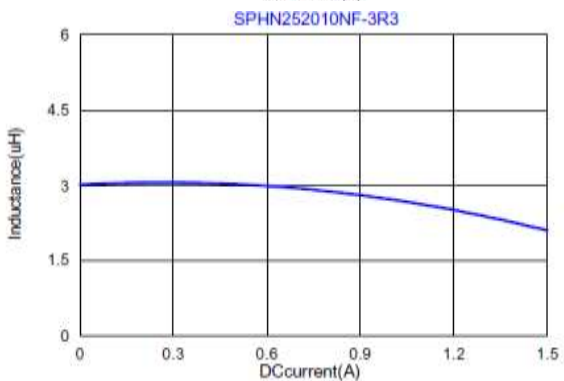
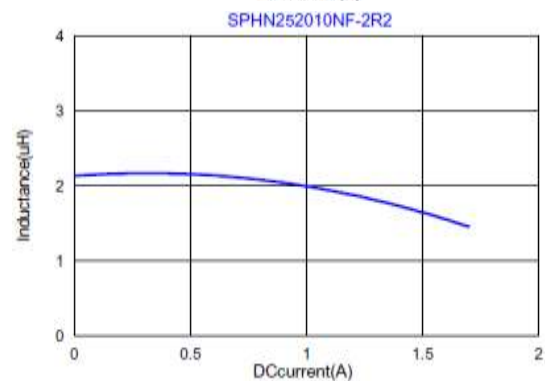
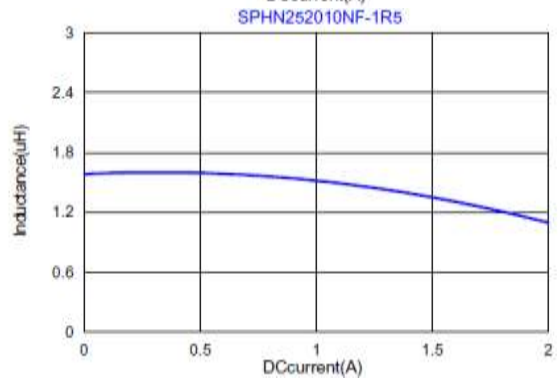
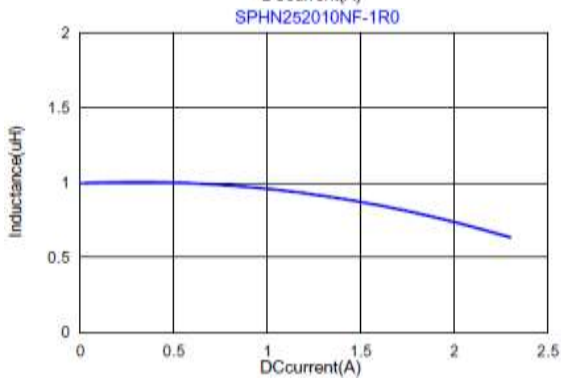
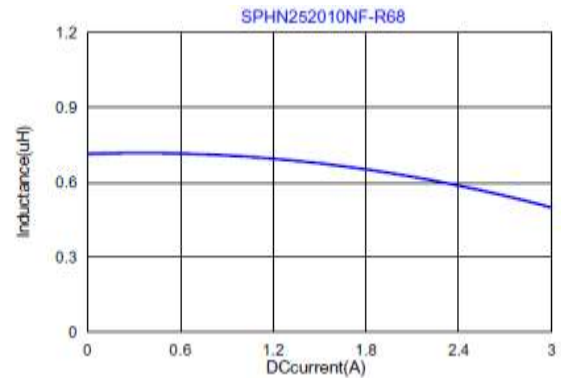
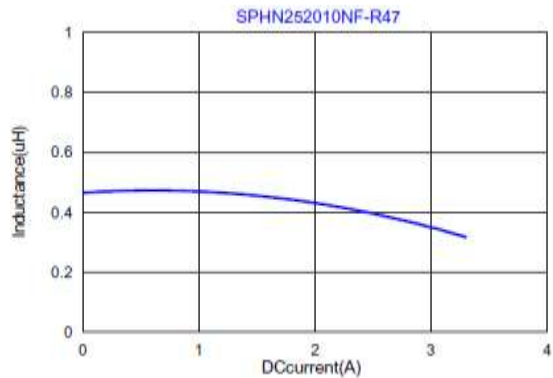
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SPHN252010NF	2.5 -0.1/+0.2	2.0 -0.05/+0.35	1.0max.	0.85 ref.	0.80 ref.
SPHN252012NF	2.5 -0.1/+0.2	2.0 -0.05/+0.35	1.2 max.	0.85 ref.	0.80 ref.

SUNLEI 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.
SPHN252010NF-R47Y-TQ	0.47	±30%	0.1V/1M	0.03	2.85	2.57	2.8	2.5
SPHN252010NF-R68Y-TQ	0.68	±30%	0.1V/1M	0.039	2.7	2.45	2.45	2.2
SPHN252010NF-1R0Y-TQ	1	±30%	0.1V/1M	0.055	2.45	2.05	2.2	1.8
SPHN252010NF-1R5Y-TQ	1.5	±30%	0.1V/1M	0.09	1.8	1.7	1.7	1.55
SPHN252010NF-2R2M-TQ	2.2	±20%	0.1V/1M	0.114	1.6	1.55	1.55	1.4
SPHN252010NF-3R3M-TQ	3.3	±20%	0.1V/1M	0.17	1.3	1.1	1.25	1.1
SPHN252010NF-4R7M-TQ	4.7	±20%	0.1V/1M	0.25	1.1	0.95	1.05	0.92
SPHN252010NF-6R8M-TQ	6.8	±20%	0.1V/1M	0.37	0.95	0.8	0.85	0.76
SPHN252010NF-100M-TQ	10	±20%	0.1V/1M	0.47	0.75	0.65	0.75	0.67
SPHN252010NF-150M-TQ	15	±20%	0.1V/1M	0.75	0.55	0.45	0.55	0.5
SPHN252010NF-220M-TQ	22	±20%	0.1V/1M	1.12	0.5	0.4	0.5	0.45

Note:

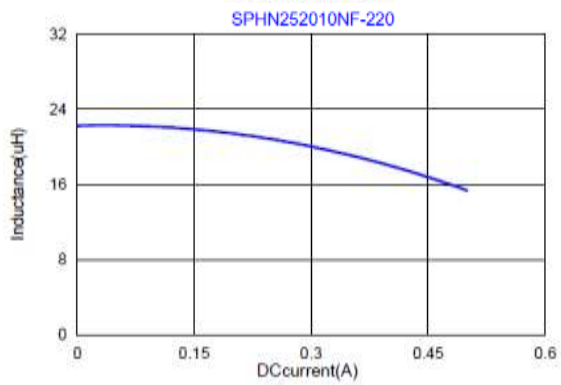
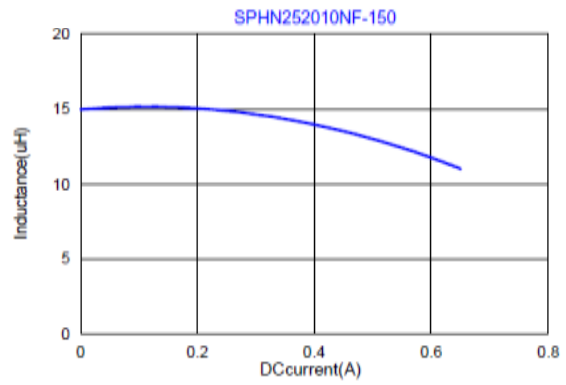
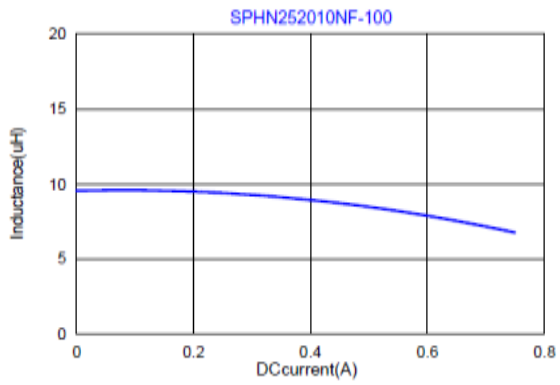
1. Isat: Based on inductance change ($\Delta L/L0: \leq -30\%$) @ ambient temp. 25°C Irms:
2. Based on temperature rise ($\Delta T: 40^\circ\text{C}.$) Max

SMD Power chokes- SPHN252010NF-SERIES



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SMD Power chokes- SPHN252012NF-SERIES

Features

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Applications

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Product Identification

SPHN 252012 NF -100M-TQ

SPHN: SERIES NAME

252010: DIMENSION SIZE CODE

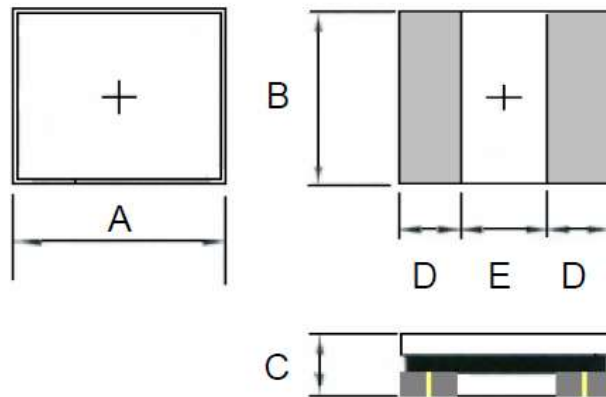
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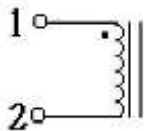
M: TOLERANCE, K=10% M=20%.±30%(N)

TQ: Material CODE

Dimensions (mm)



SCHEMATIC



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SPHN252010NF	2.5 -0.1/+0.2	2.0 -0.05/+0.35	1.0max.	0.85 ref.	0.80 ref.
SPHN252012NF	2.5 -0.1/+0.2	2.0 -0.05/+0.35	1.2 max.	0.85 ref.	0.80 ref.

SUNLEI 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.
SPHN252012NF-R47Y-TQ	0.47	±30%	0.1V/1M	0.028	4	3.6	3.7	3.35
SPHN252012NF-R68Y-TQ	0.68	±30%	0.1V/1M	0.036	3	2.7	3.3	3
SPHN252012NF-1R0Y-TQ	1	±30%	0.1V/1M	0.049	2.7	2.45	2.6	2.3
SPHN252012NF-1R5Y-TQ	1.5	±30%	0.1V/1M	0.063	2.3	2.05	2.2	1.95
SPHN252012NF-2R2M-TQ	2.2	±20%	0.1V/1M	0.08	2.15	1.95	1.85	1.65
SPHN252012NF-3R3M-TQ	3.3	±20%	0.1V/1M	0.12	1.7	1.5	1.45	1.3
SPHN252012NF-4R7M-TQ	4.7	±20%	0.1V/1M	0.176	1.5	1.35	1.2	1.05
SPHN252012NF-6R8M-TQ	6.8	±20%	0.1V/1M	0.25	1.15	1	1	0.9
SPHN252012NF-100M-TQ	10	±20%	0.1V/1M	0.41	0.85	0.75	0.75	0.65
SPHN252012NF-150M-TQ	15	±20%	0.1V/1M	0.54	0.63	0.56	0.6	0.54
SPHN252012NF-220M-TQ	22	±20%	0.1V/1M	0.85	0.56	0.5	0.5	0.45

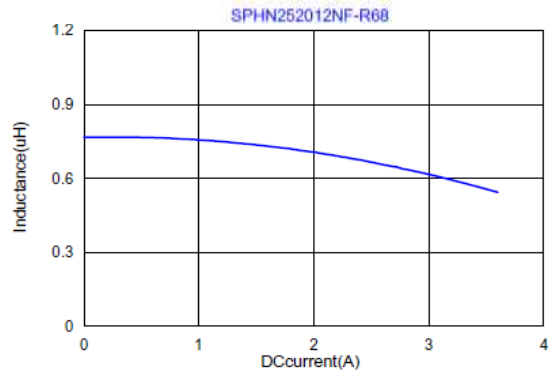
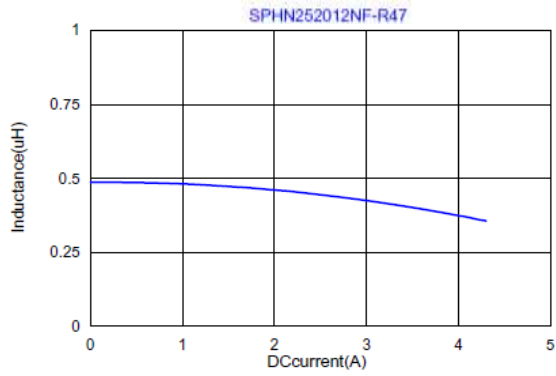
Note:

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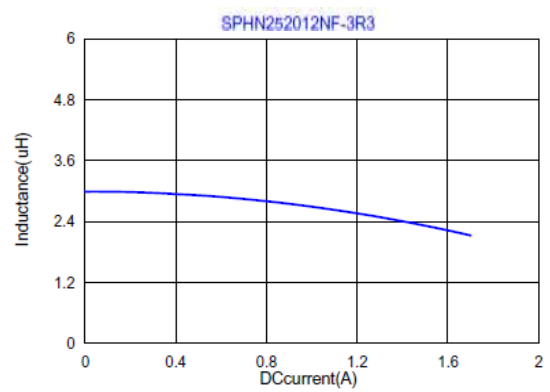
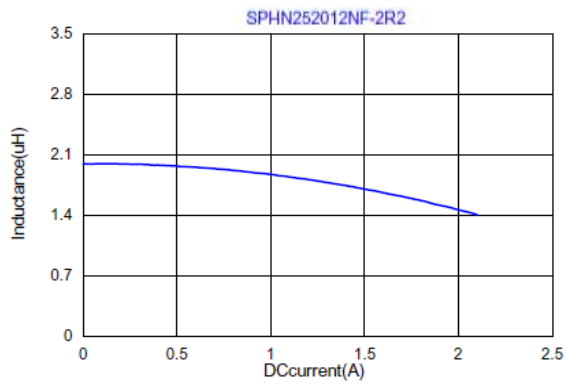
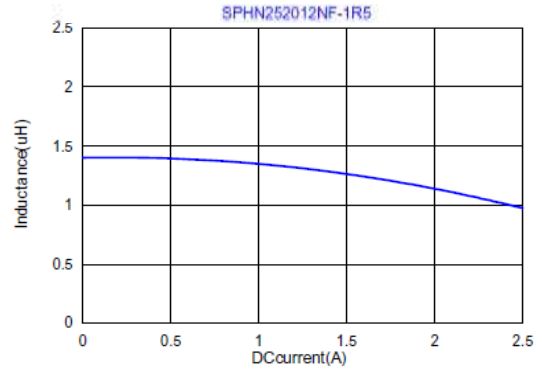
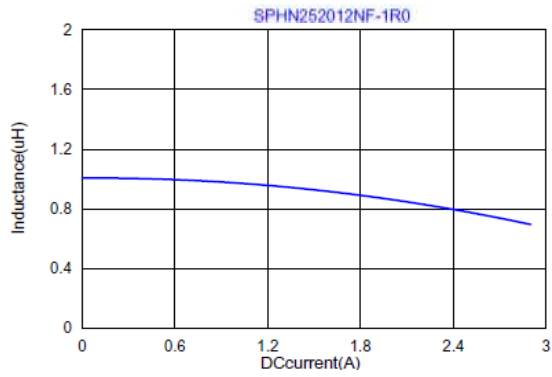
2. Based on temperature rise ($\Delta T: 40^\circ\text{C}.$) Max

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