

Power Inductor

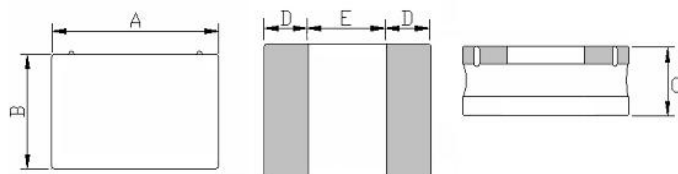
UHP201610NF-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125℃ (Including self - temperature rise)



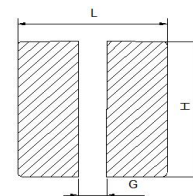
2. Dimension



A	B	C	D	E
2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0max	0.60 ref	0.80 ref

Unit:mm

Recommended PC Board Pattern



L	G	H
2.3	0.7	1.7

3. Part Numbering

UHP	201610	NF	-	100	M
A	B	C		D	E

A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

100=10.0uH

E: Inductance Tolerance

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

Part Number	Inductance (uH) ±20% @ 0 A DC	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω) ±20%
			Typ	Max	Typ	Max	
UHP201610NF-R47Y	0.47±30%	0.1V/1M	2.60	2.35	3.00	2.70	0.044
UHP201610NF-R68Y	0.68±30%	0.1V/1M	2.25	2.05	2.45	2.00	0.062
UHP201610NF-1R0Y	1.00±30%	0.1V/1M	1.75	1.60	1.95	1.80	0.080
UHP201610NF-1R5Y	1.50±30%	0.1V/1M	1.40	1.26	1.65	1.46	0.130
UHP201610NF-2R2M	2.20	0.1V/1M	1.35	1.20	1.45	1.26	0.145
UHP201610NF-3R3M	3.30	0.1V/1M	1.05	0.95	1.05	0.90	0.245
UHP201610NF-4R7M	4.70	0.1V/1M	1.00	0.90	0.85	0.77	0.360
UHP201610NF-6R8M	6.80	0.1V/1M	0.70	0.55	0.80	0.72	0.500
UHP201610NF-100M	10.0	0.1V/1M	0.50	0.45	0.62	0.55	0.720
UHP201610NF-150M	15.0	0.1V/1M	0.40	0.36	0.50	0.45	1.400
UHP201610NF-180M	18.0	0.1V/1M	0.38	0.34	0.45	0.40	1.800
UHP201610NF-220M	22.0	0.1V/1M	0.30	0.27	0.43	0.38	2.000

Note:

Isat: Saturation Current (Isat) will cause L0 to drop approximately 30%.

Irms: Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃

Rated DC current: The lower value of Irms and Isat.

10. Typical Performance Curves

