

Power Inductor

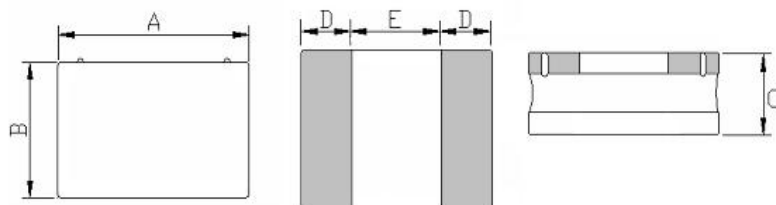
UHP201610NF-SERIES

1. Features

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



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP201610NF	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0max.	0.60 ref.	0.80 ref.

3. Part Numbering

UHP
 201610
NF
 -
 4R7
 M

A B C D E

A: Series
 B: Dimension
 C: Lead Free Material
 D: Inductance 4R7=4.7uH
 E: Inductance Tolerance M=±20%; Y=±30%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)	I rms (A)
UHP201610NF-R47Y	0.47	±30%	0.1V/1M	0.044	3.00	2.60
UHP201610NF-R68Y	0.68	±30%	0.1V/1M	0.062	2.45	2.25
UHP201610NF-1R0Y	1.00	±30%	0.1V/1M	0.080	1.95	1.75
UHP201610NF-1R5Y	1.50	±30%	0.1V/1M	0.130	1.65	1.40
UHP201610NF-2R2M	2.20	±20%	0.1V/1M	0.145	1.45	1.35
UHP201610NF-3R3M	3.30	±20%	0.1V/1M	0.245	1.05	1.05
UHP201610NF-4R7M	4.70	±20%	0.1V/1M	0.360	0.85	1.00
UHP201610NF-6R8M	6.80	±20%	0.1V/1M	0.500	0.80	0.70
UHP201610NF-100M	10.0	±20%	0.1V/1M	0.720	0.62	0.50
UHP201610NF-150M	15.0	±20%	0.1V/1M	1.400	0.50	0.40
UHP201610NF-180M	18.0	±20%	0.1V/1M	1.800	0.45	0.38
UHP201610NF-220M	22.0	±20%	0.1V/1M	2.000	0.43	0.30

Note:

I_{sat}: Saturation Current (I_{sat}) will cause L0 to drop approximately 30%.

I_{rms}: Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 40°C.

Rated DC Current: The less value which is I_{rms} or I_{sat}.

5. Typical Performance Curves

