

Power Inductor

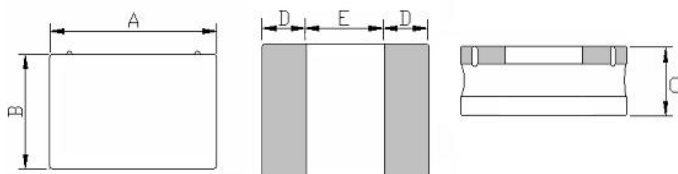
UHP252012BF-SERIES

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)
UHP252012BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.2 max.	0.85 ref.	0.80 ref.

3. Part Numbering

UHP
252012
BF
-
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)
UHP252012BF-R47Y	0.47	±30%	0.1V/1M	0.028	4.00	3.70
UHP252012BF-R68Y	0.68	±30%	0.1V/1M	0.036	3.00	3.30
UHP252012BF-1R0Y	1.00	±30%	0.1V/1M	0.049	2.70	2.60
UHP252012BF-1R5Y	1.50	±30%	0.1V/1M	0.063	2.30	2.20
UHP252012BF-2R2M	2.20	±20%	0.1V/1M	0.080	2.15	1.85
UHP252012BF-3R3M	3.30	±20%	0.1V/1M	0.120	1.70	1.45
UHP252012BF-4R7M	4.70	±20%	0.1V/1M	0.176	1.50	1.20
UHP252012BF-6R8M	6.80	±20%	0.1V/1M	0.250	1.15	1.00
UHP252012BF-100M	10.0	±20%	0.1V/1M	0.410	0.85	0.75
UHP252012BF-150M	15.0	±20%	0.1V/1M	0.540	0.63	0.60
UHP252012BF-220M	22.0	±20%	0.1V/1M	0.850	0.56	0.50

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

