

Power Inductor

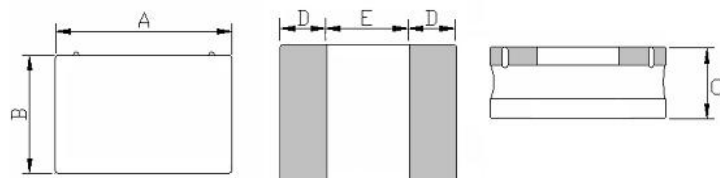
UHP252012BF-SERIES

1. Features

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

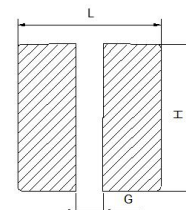


2. Dimension



A	B	C	D	E
2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.2 max	0.85±0.2	0.8±0.2

Recommended PC Board Pattern



L	G	H
2.6	0.8	2.1

3. Part Numbering

UHP	252012	BF	-	3R3	M
A	B	C		D	E

A: Series
 B: Dimension
 C: Lead Free
 D: Inductance
 E: Inductance Tolerance

Material
 3R3=3.3uH
 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	
UHP252012BF-R47Y	0.47±30%	0.1V/1M	3.70	3.35	4.00	3.60	0.028
UHP252012BF-R68Y	0.68±30%	0.1V/1M	3.30	3.00	3.00	2.70	0.036
UHP252012BF-1R0Y	1.00±30%	0.1V/1M	2.60	2.30	2.70	2.45	0.049
UHP252012BF-1R5Y	1.50±30%	0.1V/1M	2.20	1.95	2.30	2.05	0.063
UHP252012BF-2R2M	2.20	0.1V/1M	1.85	1.65	2.15	1.95	0.080
UHP252012BF-3R3M	3.30	0.1V/1M	1.45	1.30	1.70	1.50	0.120
UHP252012BF-4R7M	4.70	0.1V/1M	1.20	1.05	1.50	1.35	0.176
UHP252012BF-6R8M	6.80	0.1V/1M	1.00	0.90	1.15	1.00	0.250
UHP252012BF-100M	10.0	0.1V/1M	0.75	0.65	0.85	0.75	0.410
UHP252012BF-150M	15.0	0.1V/1M	0.60	0.54	0.63	0.56	0.540
UHP252012BF-220M	22.0	0.1V/1M	0.50	0.45	0.56	0.50	0.850

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

