

Power Inductor

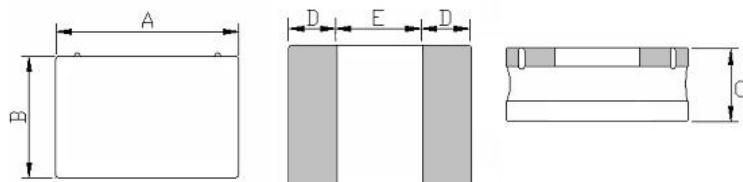
UHP252010BF-SERIES

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)



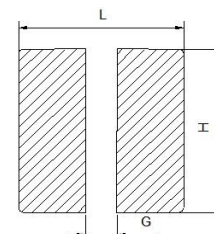
2. Dimension



A	B	C	D	E
2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.0max	0.85 ref	0.80 ref

Unit:mm

Recommended PC Board Pattern



L	G	H
2.6	0.8	2.1

3. Part Numbering

UHP	252010	BF	-	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	
UHP252010BF-R47Y	0.47 ±30%	0.1V/1M	2.80	2.50	2.85	2.57	0.030
UHP252010BF-R68Y	0.68 ±30%	0.1V/1M	2.45	2.20	2.70	2.45	0.039
UHP252010BF-1R0Y	1.00 ±30%	0.1V/1M	2.20	1.80	2.45	2.05	0.055
UHP252010BF-1R5Y	1.50 ±30%	0.1V/1M	1.70	1.55	1.80	1.70	0.090
UHP252010BF-2R2M	2.20	0.1V/1M	1.55	1.40	1.60	1.55	0.114
UHP252010BF-3R3M	3.30	0.1V/1M	1.25	1.10	1.30	1.10	0.170
UHP252010BF-4R7M	4.70	0.1V/1M	1.05	0.92	1.10	0.95	0.250
UHP252010BF-6R8M	6.80	0.1V/1M	0.85	0.76	0.95	0.80	0.370
UHP252010BF-100M	10.0	0.1V/1M	0.75	0.67	0.75	0.65	0.470
UHP252010BF-150M	15.0	0.1V/1M	0.55	0.50	0.55	0.45	0.750
UHP252010BF-220M	22.0	0.1V/1M	0.50	0.45	0.50	0.40	1.120

Note:

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

Irms: Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt40℃.

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

10. Typical Performance Curve

