

Power Inductor

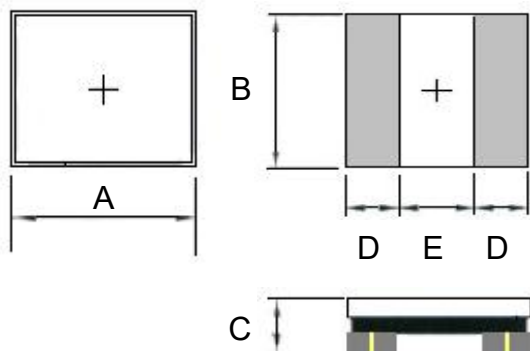
UHP252010BF-SERIES

1. Features

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



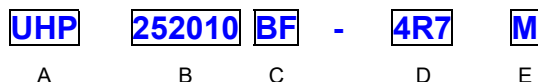
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
UHP252010BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.0max.	0.85 ref.	0.80 ref.

Units: mm

3. Part Numbering



- 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)
UHP252010BF-R47Y	0.47	±30%	0.1V/1M	0.030	2.85	2.80
UHP252010BF-R68Y	0.68	±30%	0.1V/1M	0.039	2.70	2.45
UHP252010BF-1R0Y	1.0	±30%	0.1V/1M	0.055	2.45	2.20
UHP252010BF-1R5Y	1.5	±30%	0.1V/1M	0.090	1.80	1.70
UHP252010BF-2R2M	2.2	±20%	0.1V/1M	0.114	1.60	1.55
UHP252010BF-3R3M	3.3	±20%	0.1V/1M	0.170	1.30	1.25
UHP252010BF-4R7M	4.7	±20%	0.1V/1M	0.250	1.10	1.05
UHP252010BF-6R8M	6.8	±20%	0.1V/1M	0.370	0.95	0.85
UHP252010BF-100M	10	±20%	0.1V/1M	0.470	0.75	0.75
UHP252010BF-150M	15	±20%	0.1V/1M	0.750	0.55	0.55
UHP252010BF-220M	22	±20%	0.1V/1M	1.120	0.50	0.50

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°C.

Rated DC Current : The less value which is Irms or Isat.

5. Typical Performance Curves

