

Power Inductor

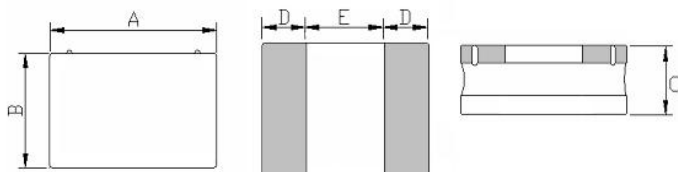
DFP252012BF-SERIES

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)
DFP252012BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.2Max	0.85 ref.	0.80 ref.

3. Part Numbering

DFP
252012
BF
-
R47
M

A B C D E

A: Series
 B: Dimension
 C: Lead Free Material
 D: Inductance R47=0.47uH
 E: Inductance Tolerance M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A)	I rms (A)
DFP252012BF-R24M	0.24	±20%	0.1V/1M	0.024	0.028	8.00	4.70
DFP252012BF-R33M	0.33	±20%	0.1V/1M	0.027	0.032	5.70	4.50
DFP252012BF-R47M	0.47	±20%	0.1V/1M	0.027	0.032	5.50	4.40
DFP252012BF-R68M	0.68	±20%	0.1V/1M	0.036	0.043	4.50	3.60
DFP252012BF-1R0M	1.00	±20%	0.1V/1M	0.045	0.057	3.90	3.50
DFP252012BF-1R5M	1.50	±20%	0.1V/1M	0.080	0.096	3.00	2.50
DFP252012BF-2R2M	2.20	±20%	0.1V/1M	0.085	0.102	2.70	2.30
DFP252012BF-3R3M	3.30	±20%	0.1V/1M	0.120	0.144	2.00	1.70
DFP252012BF-4R7M	4.70	±20%	0.1V/1M	0.230	0.276	1.90	1.50

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

