

Power Inductor

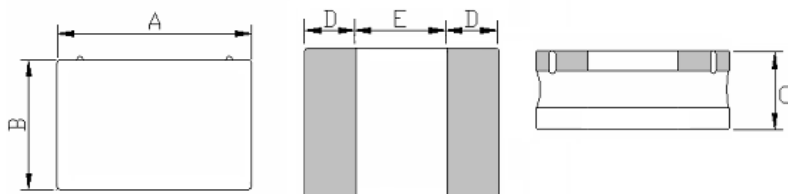
DFP252010BF-SERIES

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)
DFP252010BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.0Max	0.85 ref.	0.80 ref.

3. Part Numbering

DFP
252010
BF
-
R47
M

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) typ.	I sat (A) Max.	I rms (A) typ.	I rms (A) Max.
DFP252010BF-R24M	0.24	±20%	0.1V/1M	0.030	0.042	4.80	4.30	3.60	3.10
DFP252010BF-R33M	0.33	±20%	0.1V/1M	0.032	0.044	4.30	3.80	3.50	3.00
DFP252010BF-R47M	0.47	±20%	0.1V/1M	0.034	0.046	4.00	3.30	3.40	2.90
DFP252010BF-R68M	0.68	±20%	0.1V/1M	0.046	0.055	3.70	2.90	3.30	2.80
DFP252010BF-1R0M	1.0	±20%	0.1V/1M	0.060	0.080	3.40	2.70	2.60	2.2
DFP252010BF-1R5M	1.5	±20%	0.1V/1M	0.090	0.108	2.70	2.10	2.30	1.90
DFP252010BF-2R2M	2.2	±20%	0.1V/1M	0.130	0.169	2.40	1.90	1.80	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

Typical Performance Curves

