

Power Inductor

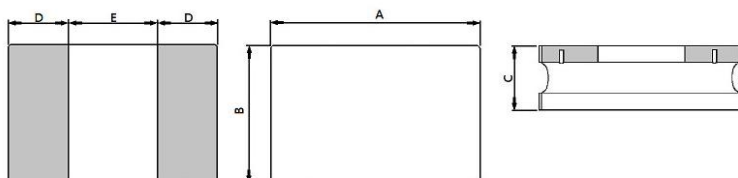
DFP322510BF-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



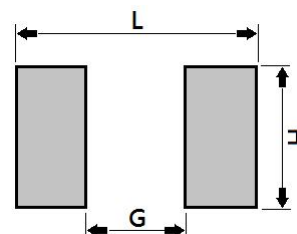
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP322510BF	3.2 ± 0.2	2.5 ± 0.2	1.0Max	1.0±0.2	1.3±0.2

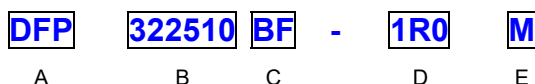
Units: mm

Recommended PC Board Pattern



L(mm)	G(mm)	H(mm)
3.6	1.2	2.8

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

1R0=1.00uH

E: Inductance Tolerance

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω)	
			typ	max	typ	max	typ	max
DFP322510BF-R47M	0.47	1V/1M	4.00	3.50	5.00	4.00	0.028	0.034
DFP322510BF-R68M	0.68	1V/1M	3.50	3.00	4.10	3.60	0.038	0.045
DFP322510BF-1R0M	1.00	1V/1M	2.80	2.50	3.60	3.20	0.055	0.065
DFP322510BF-1R5M	1.50	1V/1M	2.30	2.10	2.80	2.60	0.072	0.086
DFP322510BF-2R2M	2.20	1V/1M	1.70	1.50	2.40	2.20	0.098	0.118
DFP322510BF-3R3M	3.30	1V/1M	1.50	1.30	2.00	1.80	0.160	0.190
DFP322510BF-4R7M	4.70	1V/1M	1.40	1.20	1.70	1.50	0.220	0.264
DFP322510BF-6R8M	6.80	1V/1M	1.10	1.00	1.35	1.25	0.330	0.396
DFP322510BF-100M	10.0	1V/1M	0.90	0.80	1.20	1.10	0.500	0.600

Note:

Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%. @ ambient temp. 25°C

Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C

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

Measurement board data

Irms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

10. Typical Performance Curves

