

Power Inductor

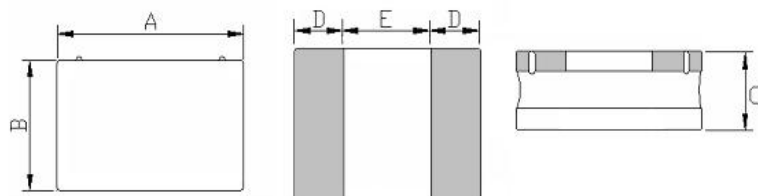
DFP252012BF-SERIES

1. Features

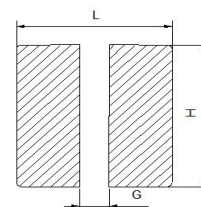
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125℃ (Including self - temperature rise)



2. Dimension



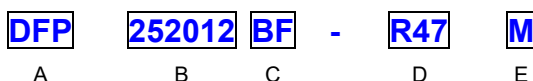
Recommended PC Board Pattern



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

L(mm)	G(mm)	H(mm)
2.9	0.8	2.4

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

Material

R47=0.47uH

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

Part Number	Inductance (uH) ±20% @ 0 A	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω)	
			Typ	Max	Typ	Max	Typ	Max
DFP252012BF-R24M	0.24	0.1V/1M	4.70	4.20	8.00	6.50	0.024	0.028
DFP252012BF-R33M	0.33	0.1V/1M	4.50	4.00	5.70	4.60	0.027	0.032
DFP252012BF-R47M	0.47	0.1V/1M	4.40	3.90	5.50	4.50	0.027	0.032
DFP252012BF-R68M	0.68	0.1V/1M	3.60	3.20	4.50	3.80	0.036	0.043
DFP252012BF-1R0M	1.00	0.1V/1M	3.50	3.15	3.90	3.40	0.045	0.057
DFP252012BF-1R5M	1.50	0.1V/1M	2.50	2.25	3.00	2.60	0.080	0.096
DFP252012BF-2R2M	2.20	0.1V/1M	2.30	2.00	2.70	2.30	0.085	0.102
DFP252012BF-3R3M	3.30	0.1V/1M	1.70	1.50	2.00	1.80	0.120	0.144
DFP252012BF-4R7M	4.70	0.1V/1M	1.50	1.30	1.90	1.60	0.230	0.276

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℃

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

10. Typical Performance Curves

