

Power Inductor

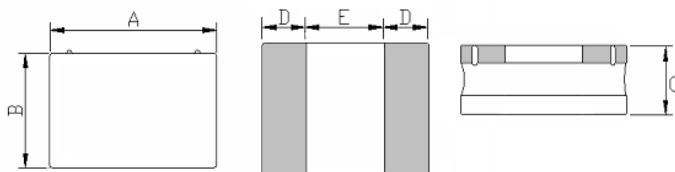
DFP201612NF-SERIES

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)

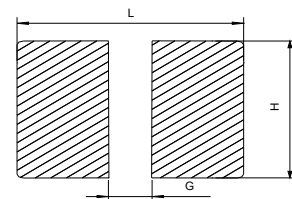


2. Dimension



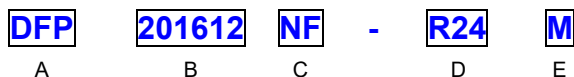
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201612NF	2.0-0.1/+0.2	1.6 -0.1/+0.2	1.20Max	0.60 ref	0.80 ref

Recommended PC Board Pattern



L(mm)	G(mm)	H(mm)
2.3	0.7	1.7

3. Part Numbering



A: Series
 B: Dimension
 C: Lead Free Material
 D: Inductance R24=0.24uH
 E: Inductance Tolerance 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
DFP201612NF-R24M	0.24	0.1V/1M	4.00	3.50	5.40	4.80	0.025	0.033
DFP201612NF-R33M	0.33	0.1V/1M	3.90	3.20	4.70	3.90	0.027	0.034
DFP201612NF-R47M	0.47	0.1V/1M	3.30	2.90	3.90	3.50	0.035	0.046
DFP201612NF-R56M	0.56	0.1V/1M	3.00	2.60	3.50	3.00	0.053	0.064
DFP201612NF-R68M	0.68	0.1V/1M	3.00	2.60	3.30	2.80	0.055	0.066
DFP201612NF-1R0M	1.00	0.1V/1M	2.70	2.30	3.00	2.50	0.080	0.104
DFP201612NF-1R2M	1.20	0.1V/1M	2.70	2.30	3.00	2.50	0.088	0.106
DFP201612NF-1R5M	1.50	0.1V/1M	2.10	1.80	2.50	2.00	0.090	0.108
DFP201612NF-2R2M	2.20	0.1V/1M	1.50	1.30	2.00	1.60	0.155	0.186

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 lower value of Irms and Isat.

10. Typical Performance Curves

