



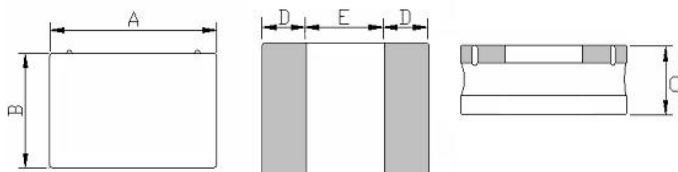
Power Inductor

GFP252012BF-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



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
GFP252012BF	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.2Max	0.85 ref.	0.80 ref.

3. Part Numbering

GFP **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

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A)	I rms (A)
GFP252012BF-R24M	0.24	±20%	0.1V/1M	0.024	0.028	8.00	4.70
GFP252012BF-R33M	0.33	±20%	0.1V/1M	0.027	0.032	5.70	4.50
GFP252012BF-R47M	0.47	±20%	0.1V/1M	0.027	0.032	5.50	4.40
GFP252012BF-R68M	0.68	±20%	0.1V/1M	0.036	0.043	4.50	3.60
GFP252012BF-1R0M	1.00	±20%	0.1V/1M	0.045	0.057	3.90	3.50
GFP252012BF-1R5M	1.50	±20%	0.1V/1M	0.080	0.096	3.00	2.50
GFP252012BF-2R2M	2.20	±20%	0.1V/1M	0.085	0.102	2.70	2.30
GFP252012BF-3R3M	3.30	±20%	0.1V/1M	0.120	0.144	2.00	1.70
GFP252012BF-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℃.

Rated DC Current : The less value which is Irms or Isat.



5. Typical Performance Curves

