

Power Inductor

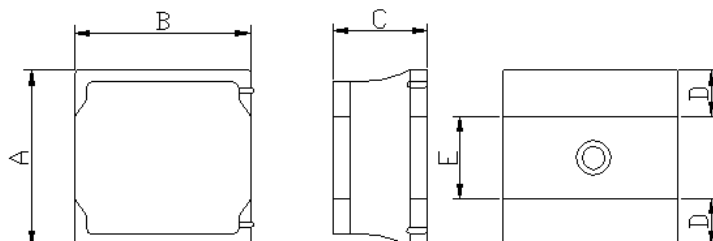
DFP3012EF-SERIES

1. Features

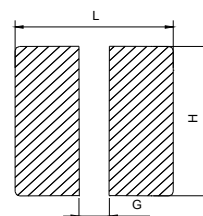
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125°C (Including self - temperature rise)



2. Dimension



Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP3012EF	3.0±0.2	3.0±0.2	1.2 max.	1.0 ref.	1.0 ref.

Units: mm

L(mm)	G(mm)	H(mm)
3.2	1.0	3.2

3. Part Numbering

DFP
3012
EF
-
1R0
M

A: Series
 B: Dimension
 C: Lead Free
 D: Inductance 1R0=1.0uH
 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 rms (A) typ.
DFP3012EF-R33M	0.33	±20%	1V/1M	0.030	0.036	8.00	4.20
DFP3012EF-R47M	0.47	±20%	1V/1M	0.031	0.037	5.40	4.10
DFP3012EF-1R0M	1.00	±20%	1V/1M	0.050	0.060	3.80	3.10
DFP3012EF-1R5M	1.50	±20%	1V/1M	0.070	0.084	3.30	2.60
DFP3012EF-2R2M	2.20	±20%	1V/1M	0.105	0.126	2.90	2.10
DFP3012EF-3R3M	3.30	±20%	1V/1M	0.170	0.204	2.60	1.70
DFP3012EF-4R7M	4.70	±20%	1V/1M	0.240	0.288	2.10	1.30
DFP3012EF-6R8M	6.80	±20%	1V/1M	0.340	0.408	1.90	1.20

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

