

Power Inductor

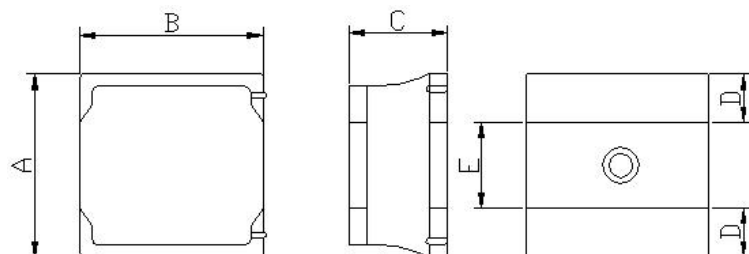
DFP3010EF-SERIES

1. Features

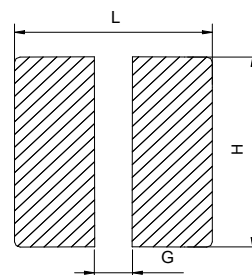
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125℃ (Including self - temperature rise)



2. Dimension



Recommended Land pattern



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP3010EF	3.0±0.2	3.0±0.2	1.0max.	1.0 ref.	1.0 ref.

Units: mm

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

3. Part Numbering

DFP
3010
EF
-
1R0
M
-
NB

A: Series
 B: Dimension
 C: Lead Free
 D: Inductance 1R0=1.0uH
 E: Inductance Tolerance M=±20%
 F: Code

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.
DFP3010EF-R47M	0.47	±20%	1V/1M	0.038	0.045	5.40	4.10
DFP3010EF-1R0M	1.0	±20%	1V/1M	0.078	0.090	3.80	2.40
DFP3010EF-1R5M	1.5	±20%	1V/1M	0.095	0.110	3.10	2.10
DFP3010EF-2R2M	2.2	±20%	1V/1M	0.130	0.144	2.30	2.00
DFP3010EF -3R3M	3.3	±20%	1V/1M	0.200	0.230	2.10	1.30
DFP3010EF-4R7M	4.7	±20%	1V/1M	0.300	0.330	1.70	1.20
DFP3010EF-6R8M	6.8	±20%	1V/1M	0.435	0.470	1.30	1.10
DFP3010EF-100M	10	±20%	1V/1M	0.540	0.575	1.10	0.90

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.

10. Typical Performance Curves

