

Power Inductor

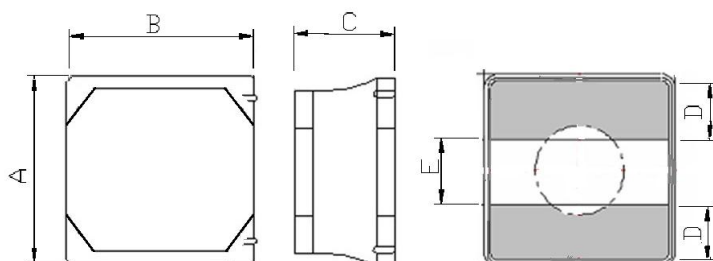
DFP4010EF-SERIES

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)



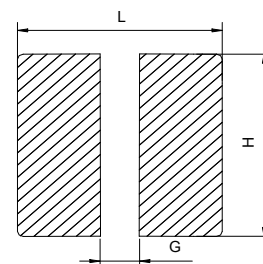
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP4010EF	4.0±0.2	4.0±0.2	1.0 max.	1.2 ref.	1.6 ref.

Units: mm

Recommended Land pattern



L(mm)	G(mm)	H(mm)
4.2	1.2	4.2

3. Part Numbering

DFP	4010	EF	-	1R0	M	-	NB
A	B	C		D	E		F

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
DFP4010EF-R47M	0.47	±20%	1V100K	0.037	0.043	4.30	3.50
DFP4010EF-R68M	0.68	±20%	1V100K	0.044	0.053	3.70	3.00
DFP4010EF-1R0M	1.0	±20%	1V100K	0.055	0.065	3.30	2.40
DFP4010EF-1R5M	1.5	±20%	1V100K	0.078	0.090	2.80	2.30
DFP4010EF-2R2M	2.2	±20%	1V100K	0.080	0.095	2.30	2.00
DFP4010EF-3R3M	3.3	±20%	1V100K	0.095	0.110	1.60	1.80
DFP4010EF-4R7M	4.7	±20%	1V100K	0.135	0.150	1.40	1.60
DFP4010EF-6R8M	6.8	±20%	1V100K	0.200	0.220	1.20	1.30
DFP4010EF-100M	10	±20%	1V100K	0.290	0.320	1.00	1.10

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

