

Power Inductor

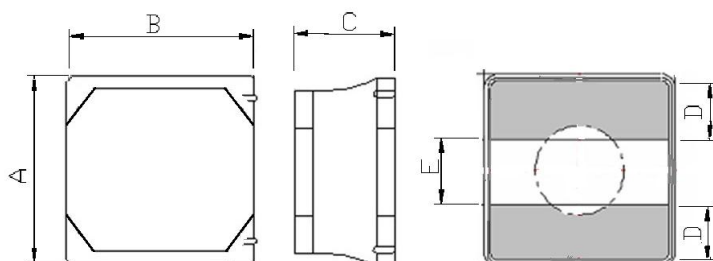
DFP4012EF-SERIES

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)



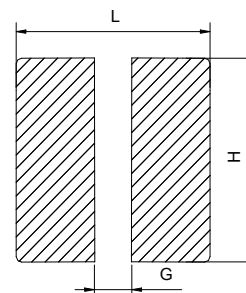
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP4012EF	4.0±0.2	4.0±0.2	1.2 max	1.2 ref	1.6 ref

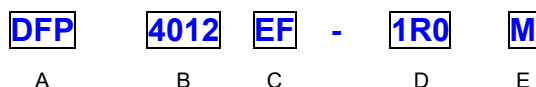
Units: mm

Recommended PC Board Pattern



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

3. Part Numbering



- A: Series
 B: Dimension
 C: Lead Free
 D: Inductance
 E: Inductance Tolerance
- 1R0=1.0uH
 K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) typ	DCR (Ω) max	I sat (A)typ	I rms (A)typ
DFP4012EF-R47M	0.47	1V100K	0.026	0.031	5.10	3.80
DFP4012EF-1R0M	1.0	1V100K	0.040	0.048	4.50	3.30
DFP4012EF-1R2M	1.2	1V100K	0.048	0.057	3.80	3.10
DFP4012EF-1R5M	1.5	1V100K	0.055	0.066	3.70	3.00
DFP4012EF-2R2M	2.2	1V100K	0.080	0.096	3.20	2.20

Note:

Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%. @ ambient temp. 25°C

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

