

Power Inductor

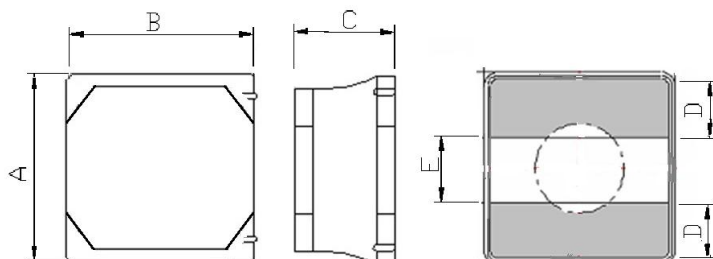
DFP4012EF-SERIES

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).



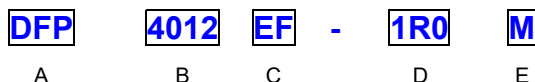
2. Dimension



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

3. Part Numbering



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)	I rms (A)
DFP4012EF-R47M	0.47	±20%	1V100K	0.026	0.031	5.10	3.80
DFP4012EF-1R0M	1.0	±20%	1V100K	0.040	0.048	4.50	3.30
DFP4012EF-1R2M	1.2	±20%	1V100K	0.048	0.057	3.80	3.10
DFP4012EF-1R5M	1.5	±20%	1V100K	0.055	0.066	3.70	3.00
DFP4012EF-2R2M	2.2	±20%	1V100K	0.080	0.096	3.20	2.20

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 less value which is Irms or Isat.

5. Typical Performance Curves

