

# Power Inductor

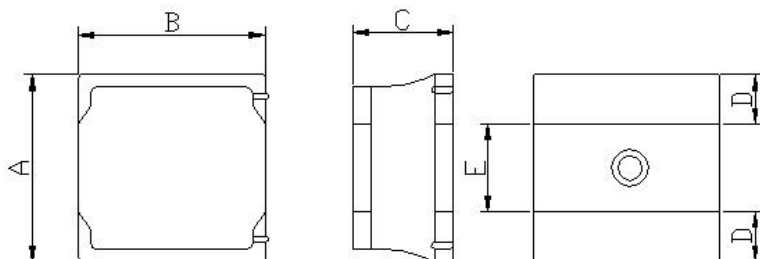
DFP3012EF-SERIES

## 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).



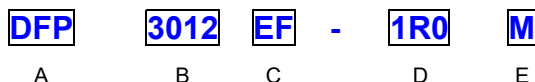
## 2. Dimension



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

## 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)
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	1.0	±20%	1V/1M	0.050	0.060	3.80	3.10
DFP3012EF-1R5M	1.5	±20%	1V/1M	0.070	0.084	3.30	2.60
DFP3012EF-2R2M	2.2	±20%	1V/1M	0.105	0.126	2.90	2.10
DFP3012EF-3R3M	3.3	±20%	1V/1M	0.170	0.204	2.60	1.70
DFP3012EF-4R7M	4.7	±20%	1V/1M	0.240	0.288	2.10	1.30
DFP3012EF-6R8M	6.8	±20%	1V/1M	0.340	0.408	1.90	1.20

Note:

Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.

I rms : Heat Rated Current (I rms) will cause the coil temperature rise approximately ΔT of 40°C.

Rated DC Current : The less value which is I rms or Isat.

### 5. Typical Performance Curves

