# Power Inductor

**DFP3010EF-SERIES**

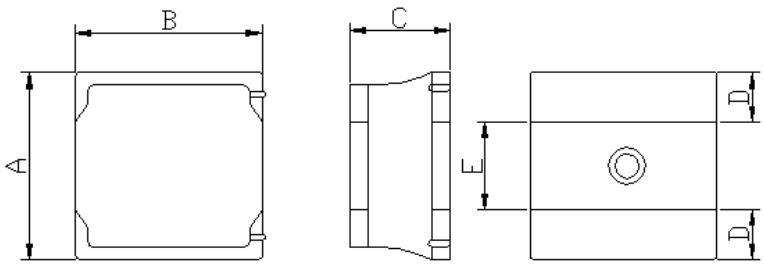
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 2. Dimension




| 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

## 3. Part Numbering

| DFP | 3010 | EF | - | 1R0 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

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

## 4. Specification

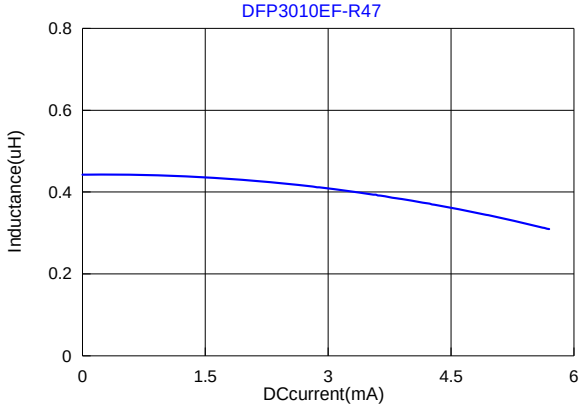
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A) typ. | I rms (A) typ. |
|---|---|---|---|---|---|---|---|
| DFP3010EF-R47M | 0.47 | ±20% | 1V/1M | 0.038 | 0.045 | 5.40 | 4.10 |
| DFP3010EF-1R0M | 1.0 | ±20% | 1V/1M | 0.078 | 0.090 | 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:

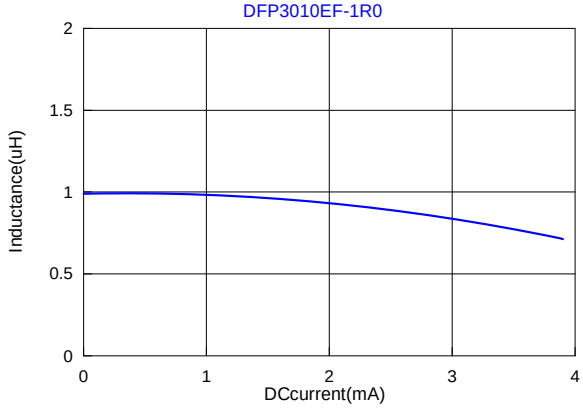
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃.）Max

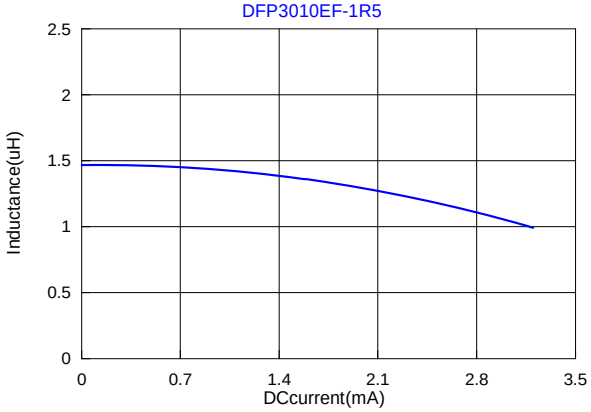
DFP3010EF-R47



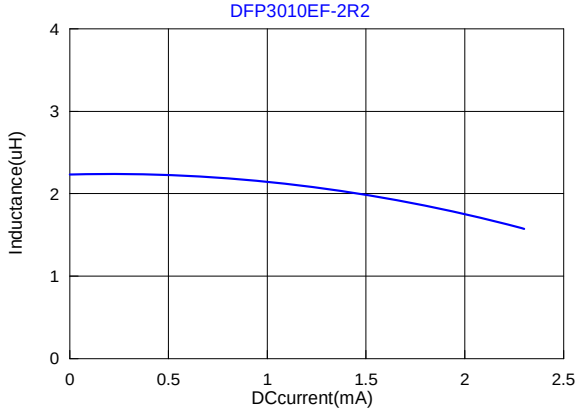

DFP3010EF-1R0



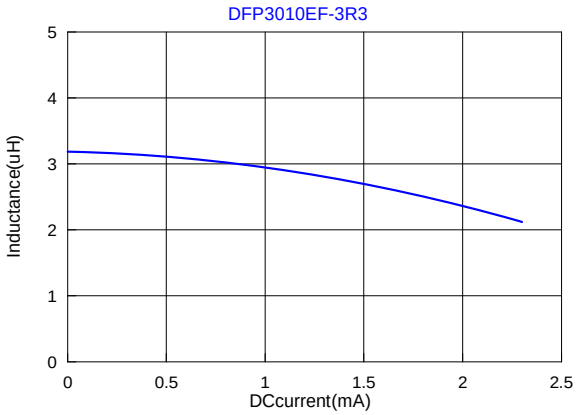

DFP3010EF-1R5



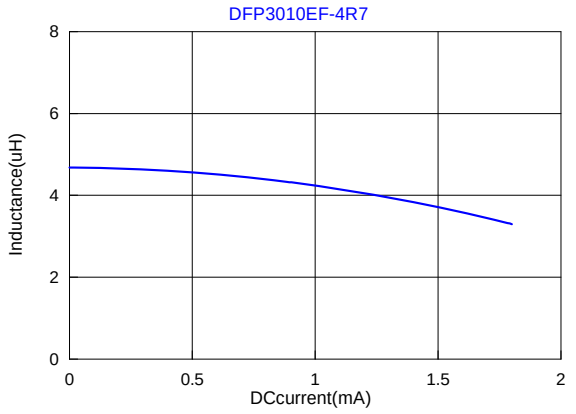

DFP3010EF-2R2



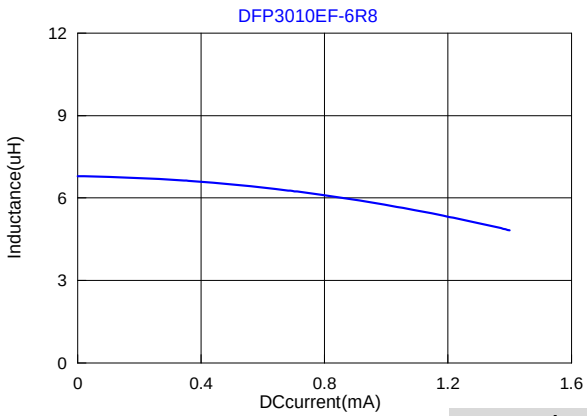

DFP3010EF-3R3



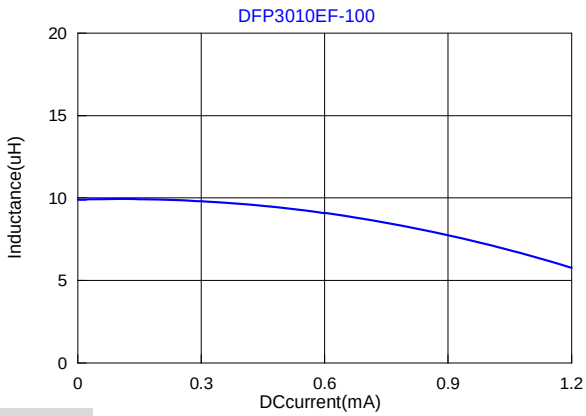

DFP3010EF-4R7




DFP3010EF-6R8




DFP3010EF-100



# Power Inductor

**DFP3012EF-SERIES**

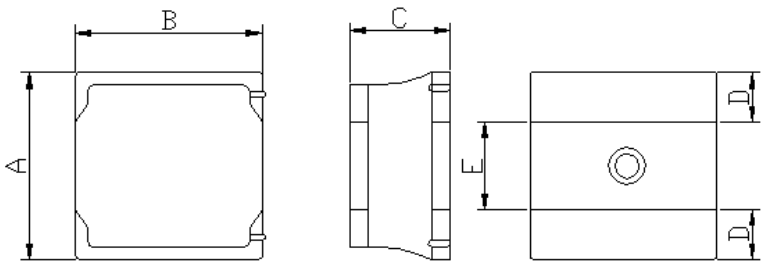
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 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

| DFP | 3012 | EF | - | 1R0 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

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

## 4. Specification

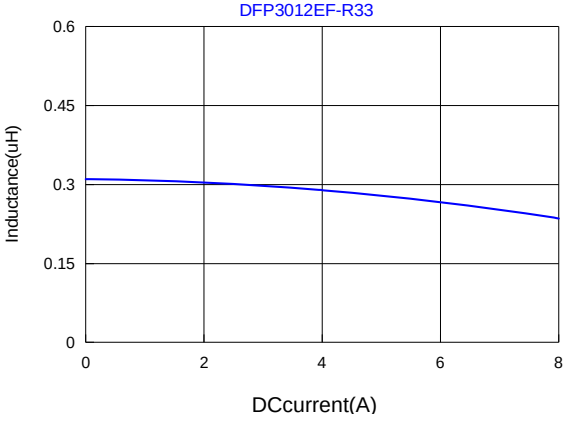
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A) typ. | I rms (A) typ. |
|---|---|---|---|---|---|---|---|
| DFP3012EF-R33M | 0.33 | ±20% | 1V/1M | 0.030 | 0.036 | 8.00 | 4.20 |
| DFP3012EF-R47M | 0.47 | ±20% | 1V/1M | 0.031 | 0.037 | 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:

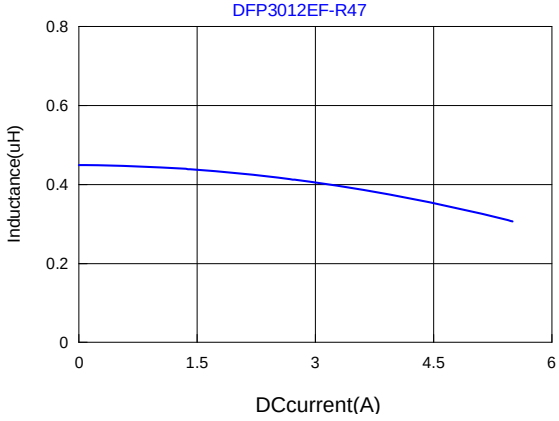
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃.）Max

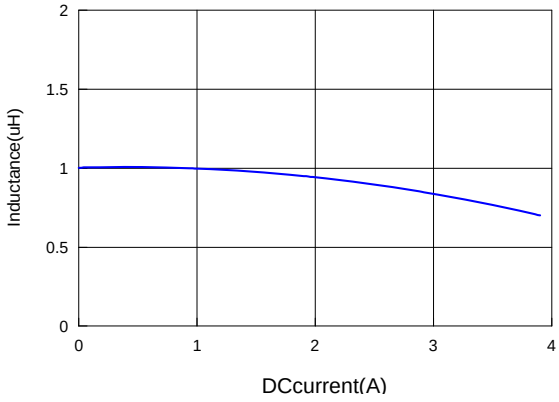
DFP3012EF-R33



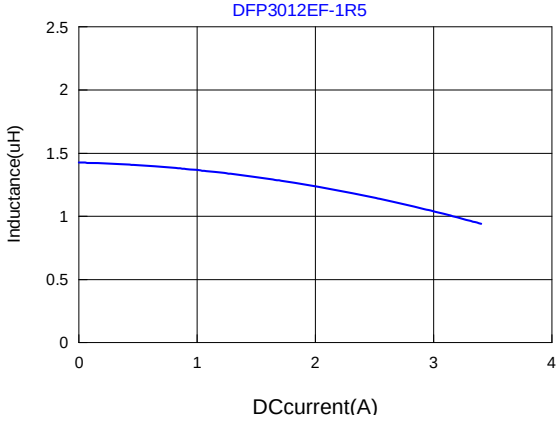

DFP3012EF-R47



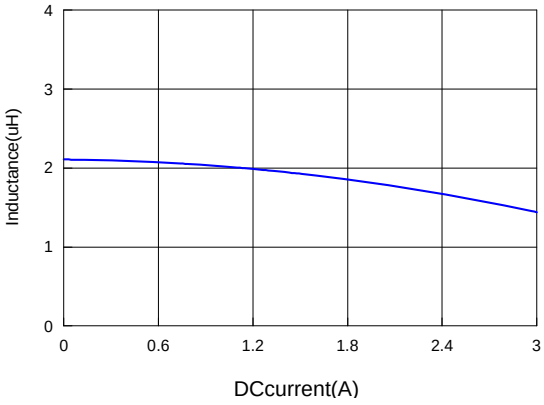

DFP3012EF-1R0



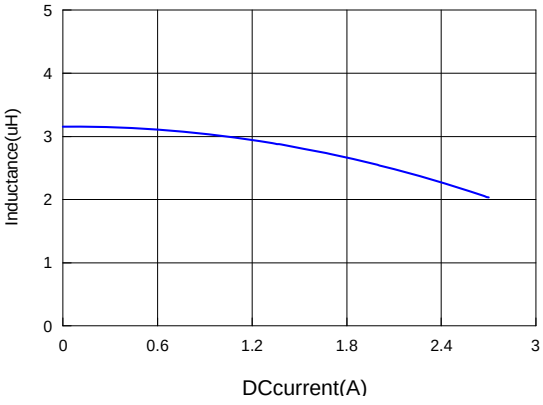

DFP3012EF-1R5



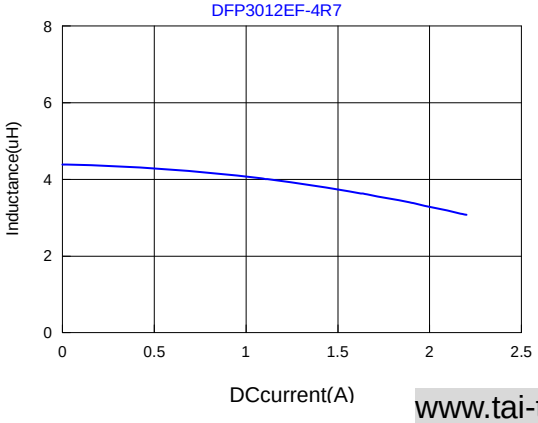

DFP3012EF-2R2



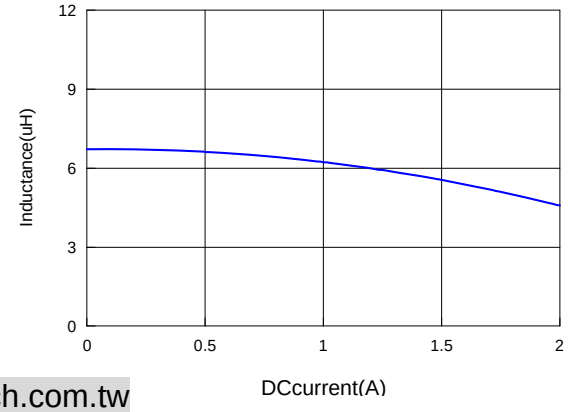

DFP3012EF-3R3




DFP3012EF-4R7




DFP3012EF-6R8



# Power Inductor

**DFP4010EF-SERIES**

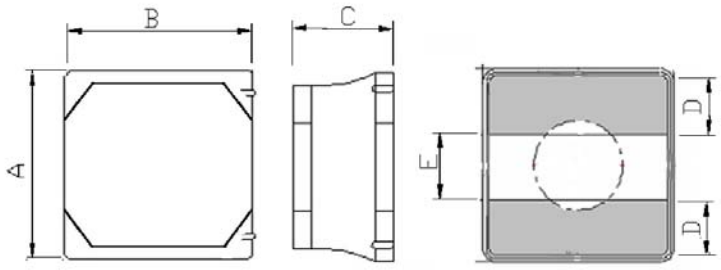
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 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

## 3. Part Numbering

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

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

## 4. Specification

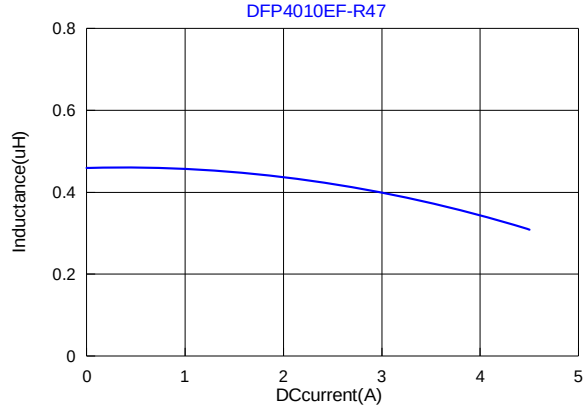
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A)typ. | I rms (A)typ |
|---|---|---|---|---|---|---|---|
| DFP4010EF-R47M | 0.47 | ±20% | 1V100K | 0.037 | 0.043 | 4.30 | 3.50 |
| DFP4010EF-R68M | 0.68 | ±20% | 1V100K | 0.044 | 0.053 | 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:

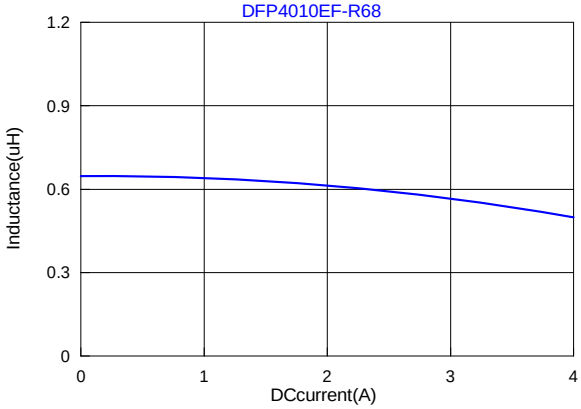
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃ typ.）max

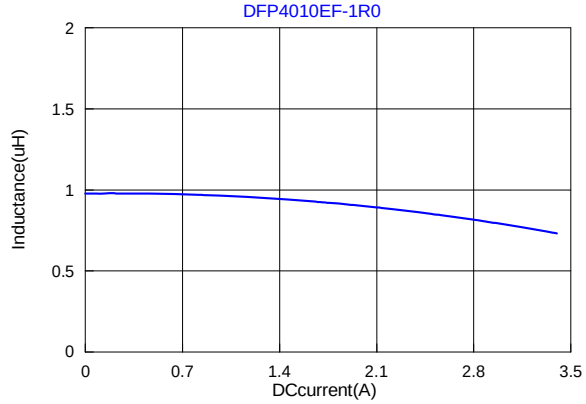
DFP4010EF-R47



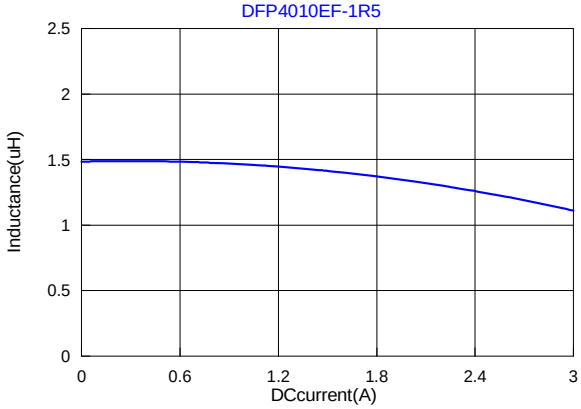

DFP4010EF-R68



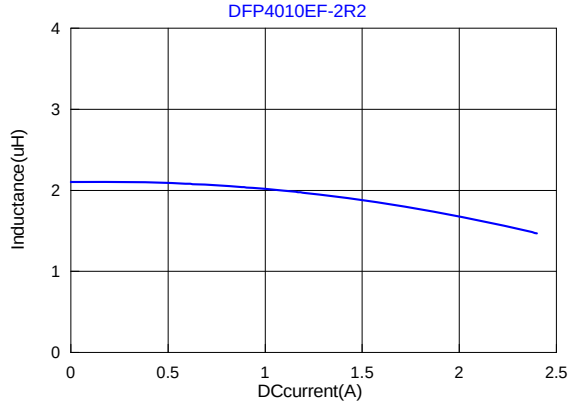

DFP4010EF-1R0



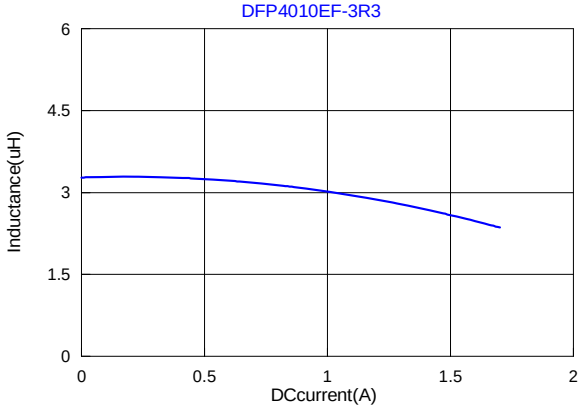

DFP4010EF-1R5



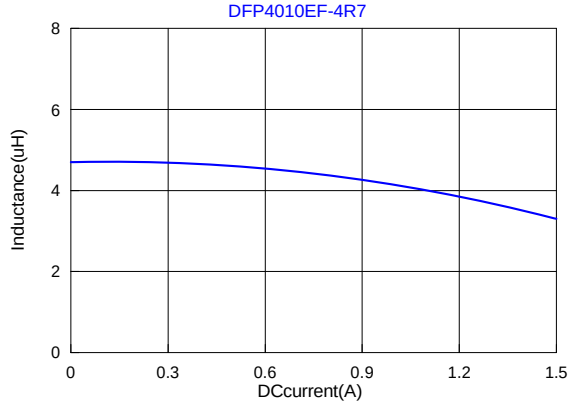

DFP4010EF-2R2



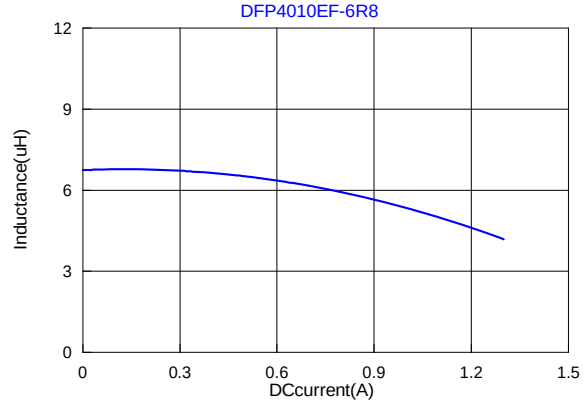

DFP4010EF-3R3

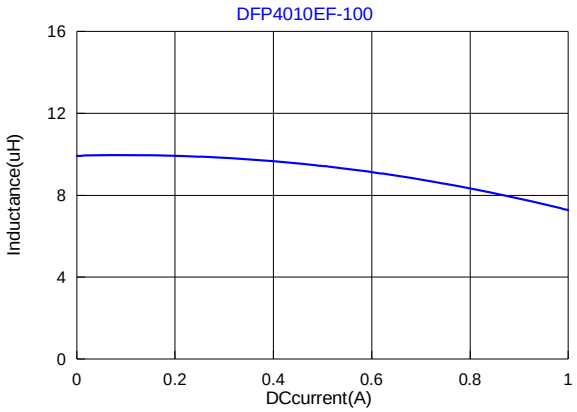



DFP4010EF-4R7




DFP4010EF-6R8




DFP4010EF-100
16
12
8
4
0
Inductance(uH)
0
0.2
0.4
0.6
0.8
1
DCcurrent(A)

# Power Inductor

**DFP4012EF-SERIES**

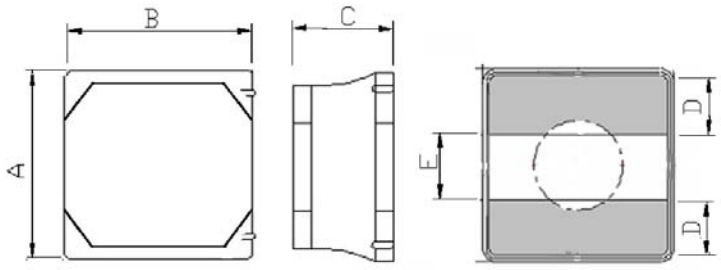
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 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

| DFP | 4012 | EF | - | 1R0 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

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

## 4. Specification

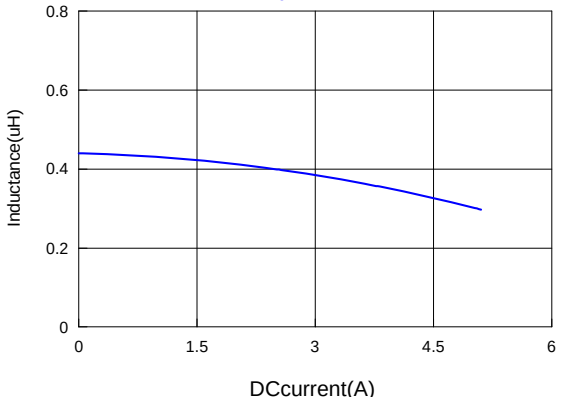
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A)typ. | I rms (A)typ. |
|---|---|---|---|---|---|---|---|
| DFP4012EF-R47M | 0.47 | ±20% | 1V100K | 0.026 | 0.031 | 5.10 | 3.80 |
| DFP4012EF-1R0M | 1.0 | ±20% | 1V100K | 0.040 | 0.048 | 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:

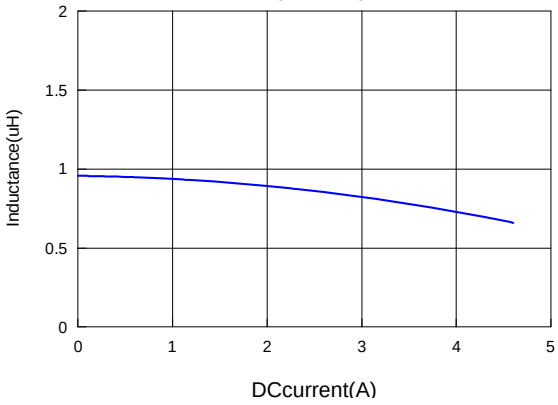
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃ typ.）max

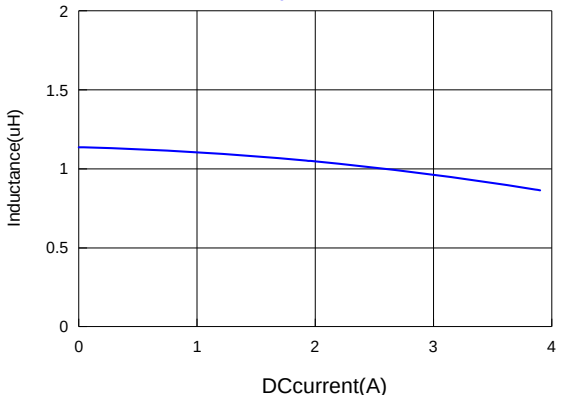
DFP4012EF-R47



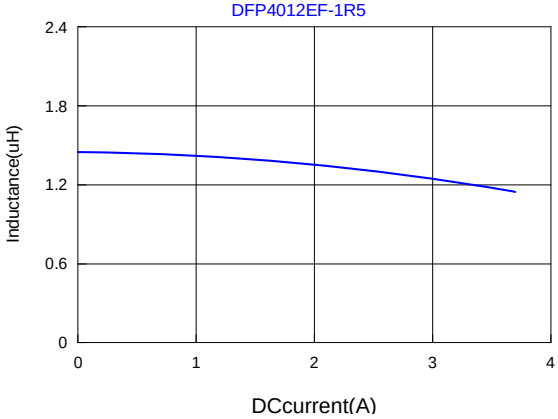

DFP4012EF-1R0



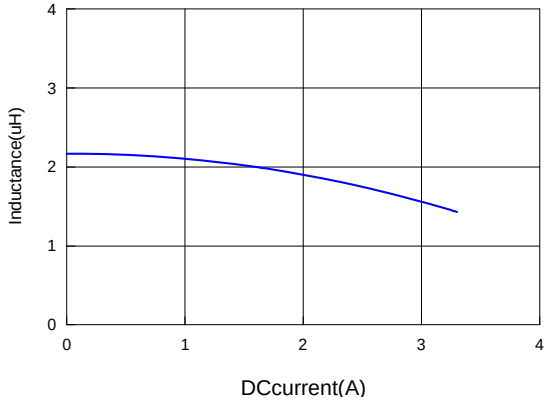

DFP4012EF-1R2




DFP4012EF-1R5




DFP4012EF-2R2



# Power Inductor

**DFP201610TF-SERIES**

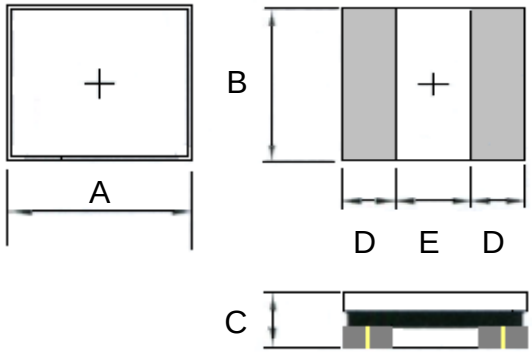
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 2. Dimension




| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|---|---|---|---|---|---|
| DFP201610TF | 2.0 -0.1/+0.2 | 1.6 -0.1/+0.2 | 1.0Max | 0.60 ref. | 0.80 ref. |

Units: mm

## 3. Part Numbering

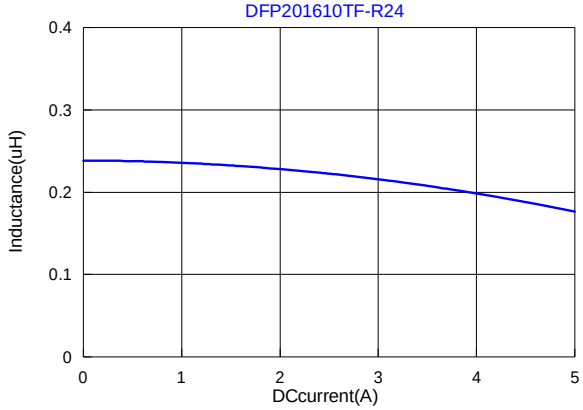
| DFP | 201610 | TF | - | R24 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R24=0.24uH
E: Inductance Tolerance M=±20%

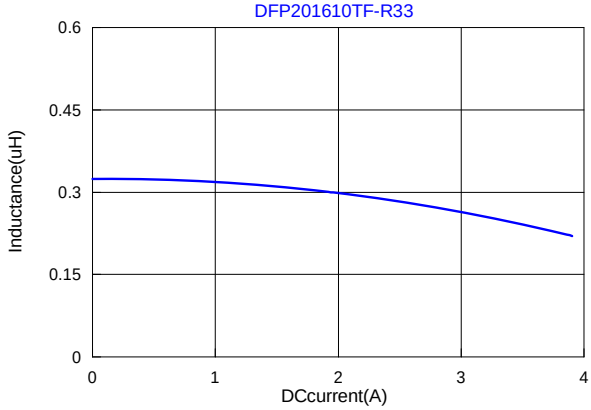
## 4. Specification

| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ | I rms (A) MAX |
|---|---|---|---|---|---|---|---|---|---|
| DFP201610TF-R24M | 0.24 | ±20% | 0.1V/1M | 0.023 | 0.028 | 5.10 | 4.50 | 4.40 | 3.90 |
| DFP201610TF-R33M | 0.33 | ±20% | 0.1V/1M | 0.031 | 0.040 | 3.90 | 3.50 | 3.50 | 3.10 |
| DFP201610TF-R47M | 0.47 | ±20% | 0.1V/1M | 0.035 | 0.042 | 3.85 | 3.40 | 3.30 | 3.00 |
| DFP201610TF-R68M | 0.68 | ±20% | 0.1V/1M | 0.046 | 0.055 | 3.25 | 2.80 | 2.80 | 2.50 |
| DFP201610TF-1R0M | 1.0 | ±20% | 0.1V/1M | 0.059 | 0.072 | 2.90 | 2.50 | 2.40 | 2.20 |
| DFP201610TF-1R5M | 1.5 | ±20% | 0.1V/1M | 0.098 | 0.118 | 2.30 | 1.80 | 2.10 | 1.80 |
| DFP201610TF-2R2M | 2.2 | ±20% | 0.1V/1M | 0.141 | 0.170 | 2.10 | 1.70 | 1.70 | 1.55 |

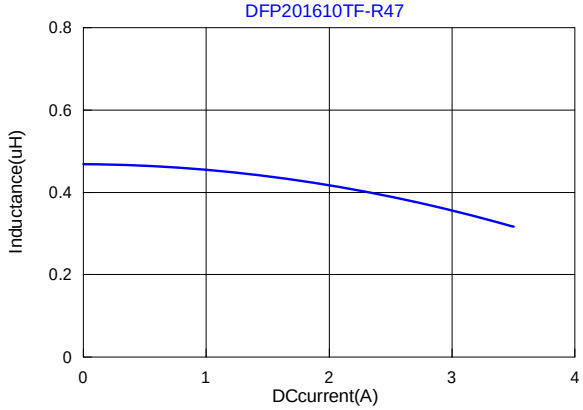
DFP201610TF-R24



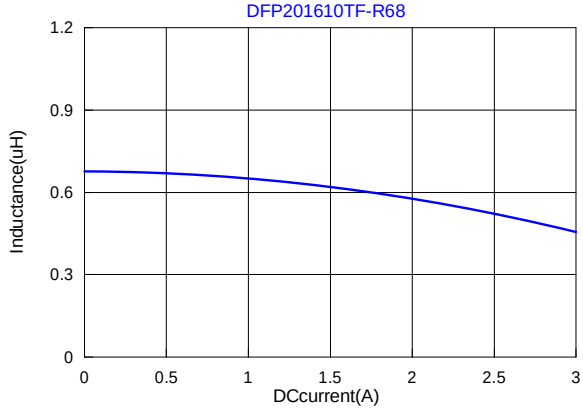

DFP201610TF-R33



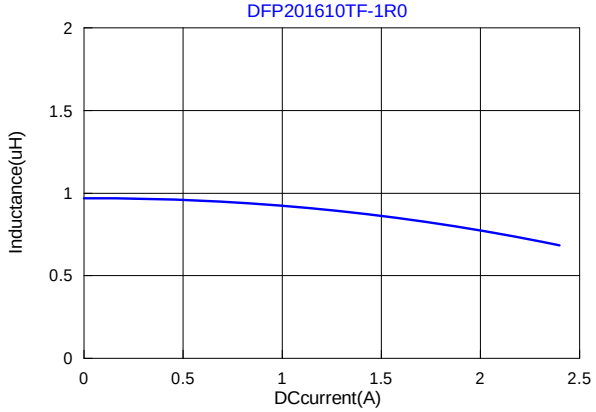

DFP201610TF-R47



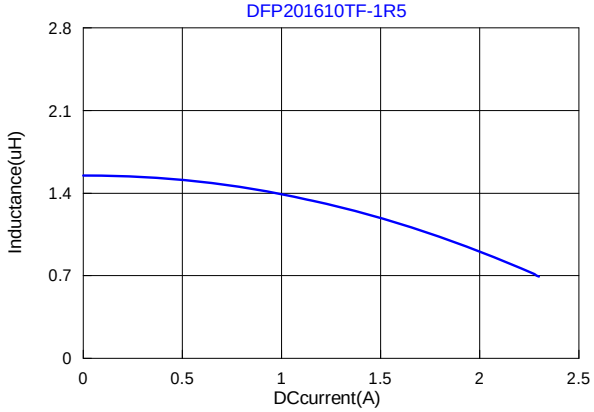

DFP201610TF-R68



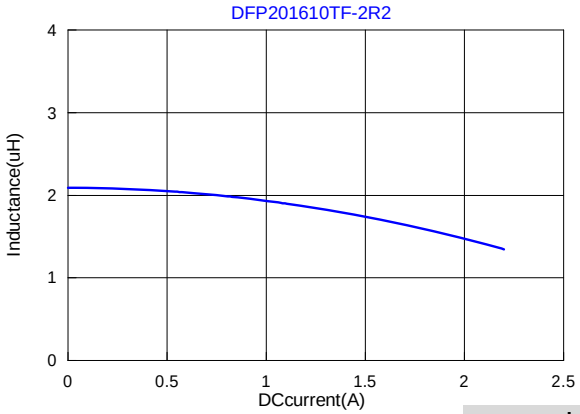

DFP201610TF-1R0




DFP201610TF-1R5




DFP201610TF-2R2



# Power Inductor

**DFP201612NF-SERIES**

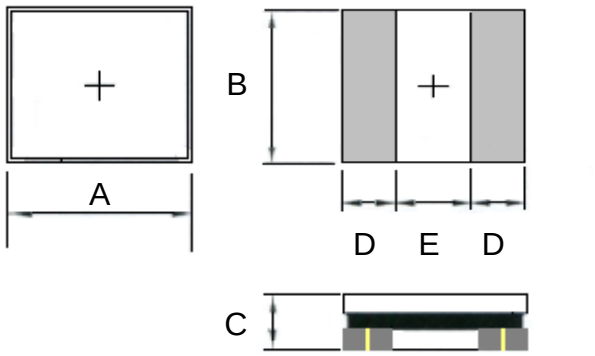
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 2. Dimension




| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|---|---|---|---|---|---|
| DFP201612NF | 2.0 -0.1/+0.2 | 1.6 -0.1/+0.2 | 1.20Max. | 0.60 ref. | 0.80 ref. |

Units: mm

## 3. Part Numbering

| DFP | 201612 | NF | - | R24 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R24=0.24uH
E: Inductance Tolerance M=±20%

## 4. Specification

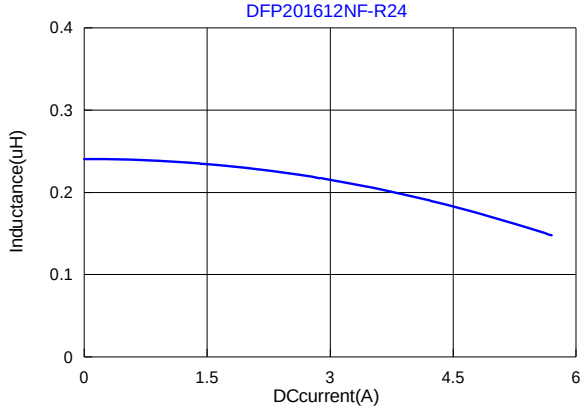
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ | I rms (A) Max. |
|---|---|---|---|---|---|---|---|---|---|
| DFP201612NF-R24M | 0.24 | ±20% | 0.1V/1M | 0.025 | 0.033 | 5.40 | 4.80 | 4.00 | 3.50 |
| DFP201612NF-R33M | 0.33 | ±20% | 0.1V/1M | 0.027 | 0.034 | 4.70 | 3.90 | 3.90 | 3.20 |
| DFP201612NF-R47M | 0.47 | ±20% | 0.1V/1M | 0.035 | 0.046 | 3.90 | 3.50 | 3.30 | 2.90 |
| DFP201612NF-R68M | 0.68 | ±20% | 0.1V/1M | 0.055 | 0.066 | 3.30 | 2.80 | 3.00 | 2.60 |
| DFP201612NF-1R0M | 1.0 | ±20% | 0.1V/1M | 0.080 | 0.104 | 3.00 | 2.50 | 2.70 | 2.30 |
| DFP201612NF-1R5M | 1.5 | ±20% | 0.1V/1M | 0.090 | 0.108 | 2.50 | 2.00 | 2.10 | 1.80 |
| DFP201612NF-2R2M | 2.2 | ±20% | 0.1V/1M | 0.155 | 0.186 | 2.00 | 1.60 | 1.50 | 1.30 |

Note:

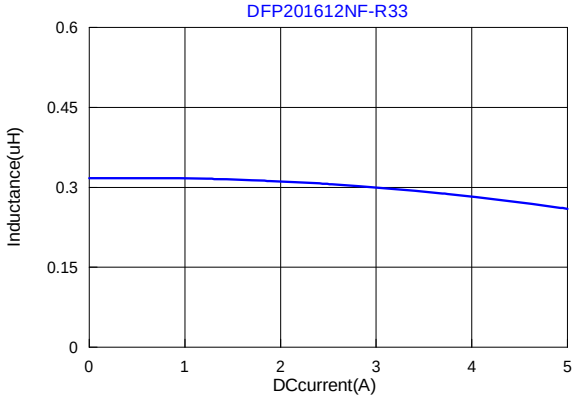
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃.）Max

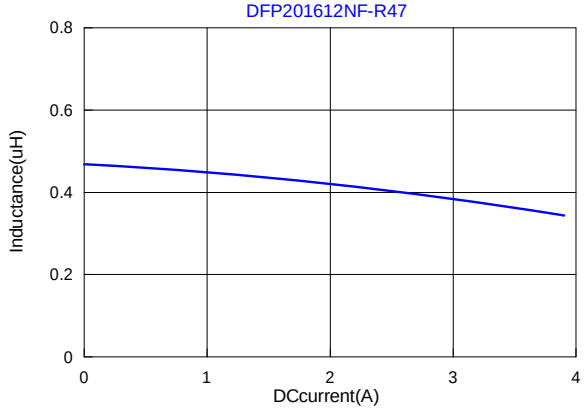
DFP201612NF-R24



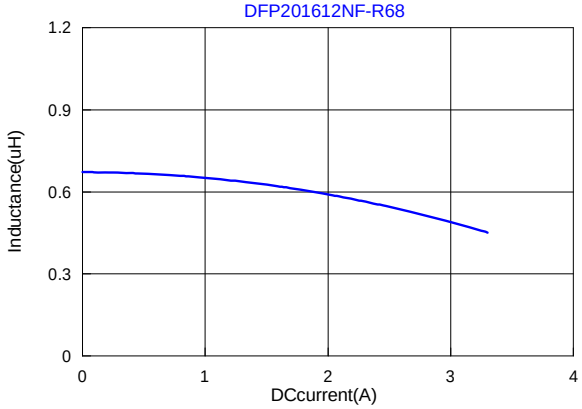

DFP201612NF-R33



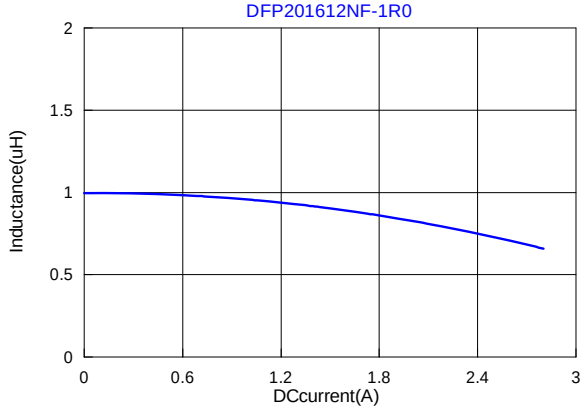

DFP201612NF-R47



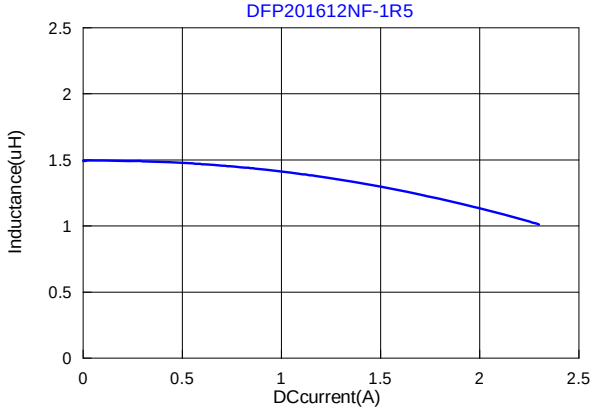

DFP201612NF-R68



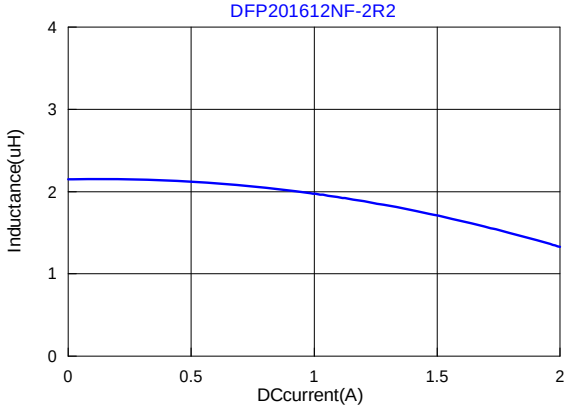

DFP201612NF-1R0




DFP201612NF-1R5




DFP201612NF-2R2



# Power Inductor

**DFP252010BF-SERIES**

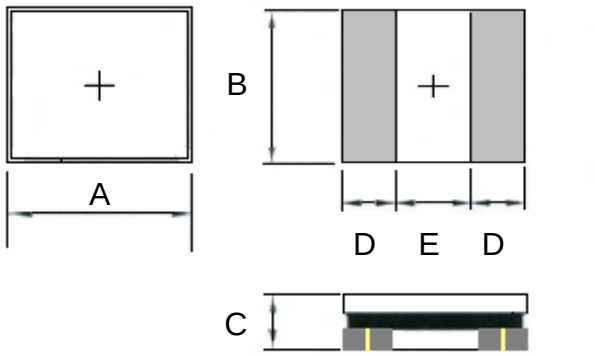
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 2. Dimension




| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|---|---|---|---|---|---|
| DFP252010BF | 2.5 -0.1/+0.2 | 2.0 -0.1/+0.2 | 1.0Max | 0.85 ref. | 0.80 ref. |

Units: mm

## 3. Part Numbering

| DFP | 252010 | BF | - | R47 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R47=0.47uH
E: Inductance Tolerance M=±20%

## 4. Specification

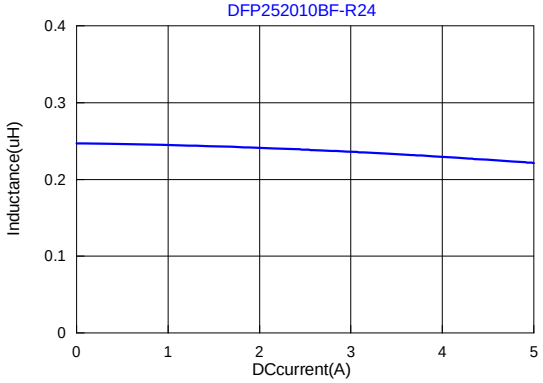
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ | I rms (A) Max. |
|---|---|---|---|---|---|---|---|---|---|
| DFP252010BF-R24M | 0.24 | ±20% | 0.1V/1M | 0.030 | 0.042 | 4.80 | 4.30 | 3.60 | 3.10 |
| DFP252010BF-R33M | 0.33 | ±20% | 0.1V/1M | 0.032 | 0.044 | 4.30 | 3.80 | 3.50 | 3.00 |
| DFP252010BF-R47M | 0.47 | ±20% | 0.1V/1M | 0.034 | 0.046 | 4.00 | 3.30 | 3.40 | 2.90 |
| DFP252010BF-R68M | 0.68 | ±20% | 0.1V/1M | 0.046 | 0.055 | 3.70 | 2.90 | 3.30 | 2.80 |
| DFP252010BF-1R0M | 1.0 | ±20% | 0.1V/1M | 0.060 | 0.080 | 3.40 | 2.70 | 2.60 | 2.2 |
| DFP252010BF-1R5M | 1.5 | ±20% | 0.1V/1M | 0.090 | 0.108 | 2.70 | 2.10 | 2.30 | 1.90 |
| DFP252010BF-2R2M | 2.2 | ±20% | 0.1V/1M | 0.130 | 0.169 | 2.40 | 1.90 | 1.80 | 1.50 |

Note:

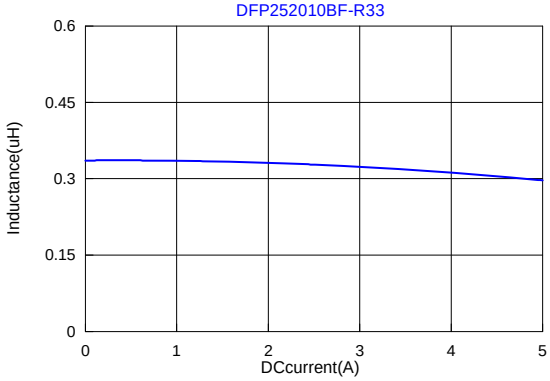
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃.）Max

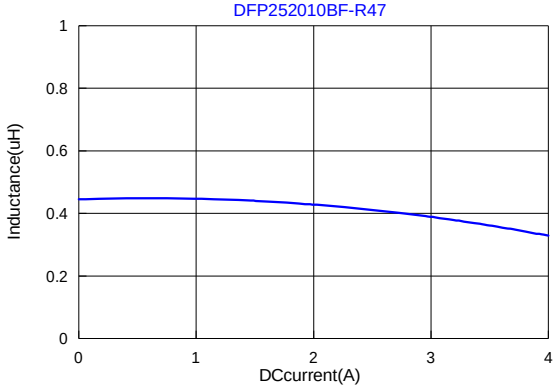
DFP252010BF-R24



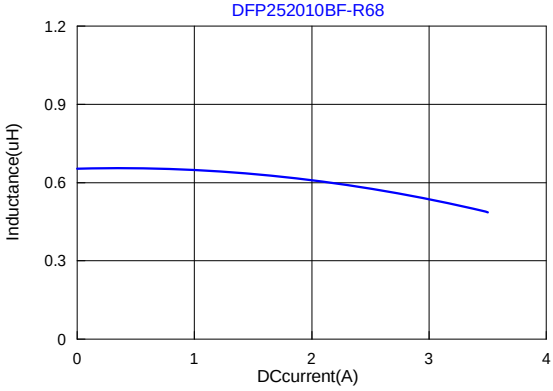

DFP252010BF-R33



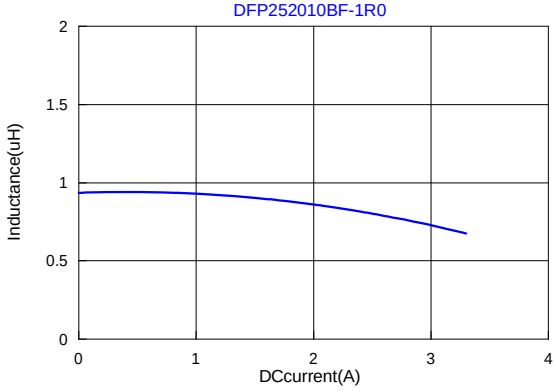

DFP252010BF-R47



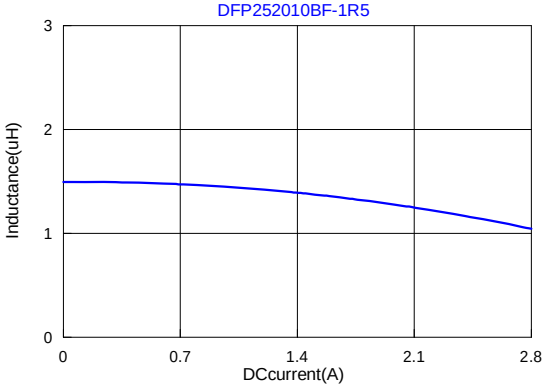

DFP252010BF-R68



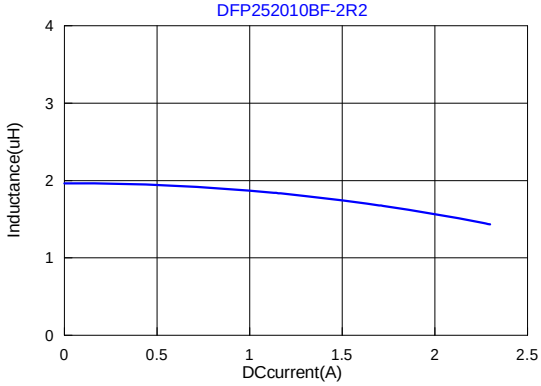

DFP252010BF-1R0




DFP252010BF-1R5




DFP252010BF-2R2



# Power Inductor

**DFP252012BF-SERIES**

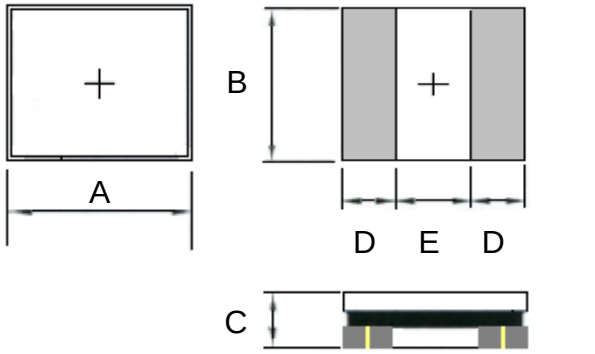
## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

## 2. Dimension




| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|---|---|---|---|---|---|
| DFP252012BF | 2.5 -0.1/+0.2 | 2.0 -0.1/+0.2 | 1.2Max | 0.85 ref. | 0.80 ref. |

Units: mm

## 3. Part Numbering

| DFP | 252012 | BF | - | R47 | M |
|---|---|---|---|---|---|
| A | B | C | | D | E |

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R47=0.47uH
E: Inductance Tolerance M=±20%

## 4. Specification

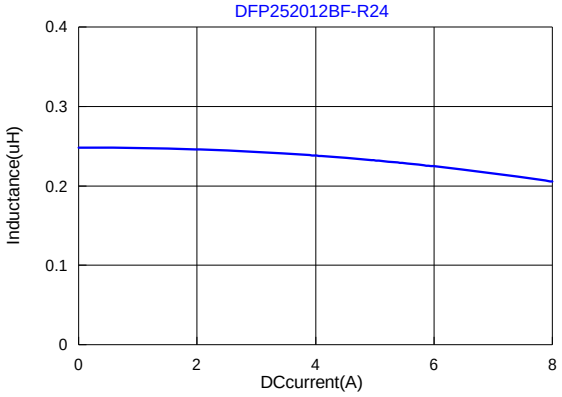
| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ |
|---|---|---|---|---|---|---|---|---|
| DFP252012BF-R24M | 0.24 | ±20% | 0.1V/1M | 0.024 | 0.028 | 8.00 | 6.50 | 4.70 |
| DFP252012BF-R33M | 0.33 | ±20% | 0.1V/1M | 0.027 | 0.032 | 5.70 | 4.60 | 4.50 |
| DFP252012BF-R47M | 0.47 | ±20% | 0.1V/1M | 0.027 | 0.032 | 5.50 | 4.50 | 4.40 |
| DFP252012BF-R68M | 0.68 | ±20% | 0.1V/1M | 0.036 | 0.043 | 4.50 | 3.80 | 3.60 |
| DFP252012BF-1R0M | 1.0 | ±20% | 0.1V/1M | 0.045 | 0.057 | 3.90 | 3.40 | 3.50 |
| DFP252012BF-1R5M | 1.5 | ±20% | 0.1V/1M | 0.080 | 0.096 | 3.00 | 2.60 | 2.50 |
| DFP252012BF-2R2M | 2.2 | ±20% | 0.1V/1M | 0.085 | 0.102 | 2.70 | 2.30 | 2.30 |

Note:

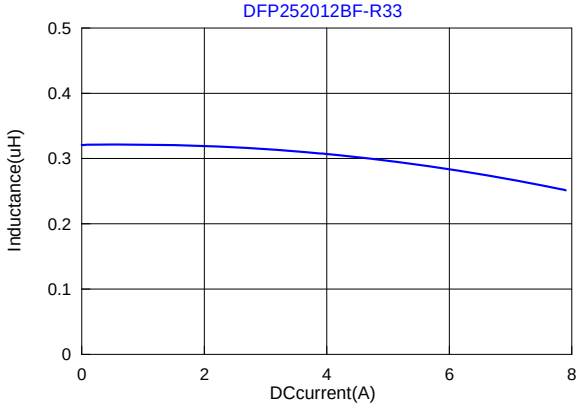
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

Irms：Based on temperature rise （△T：40℃.）Max

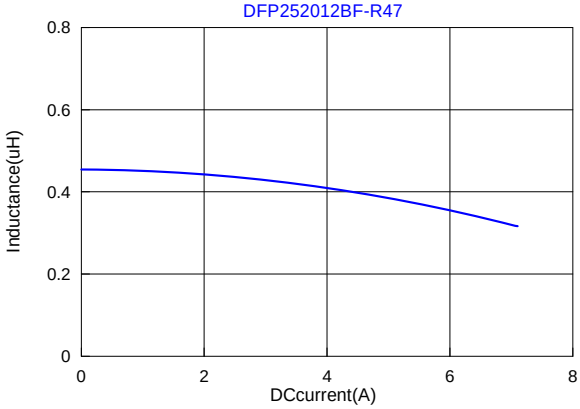
DFP252012BF-R24



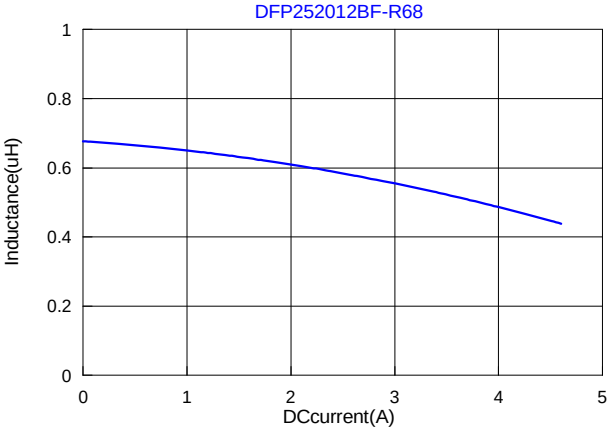

DFP252012BF-R33



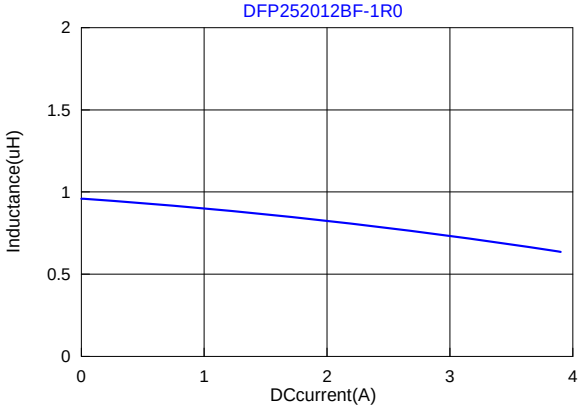

DFP252012BF-R47



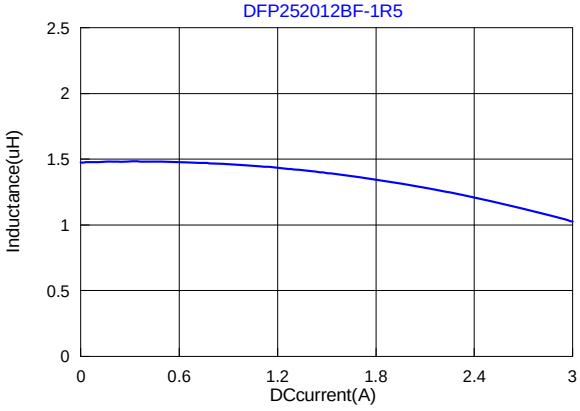

DFP252012BF-R68




DFP252012BF-1R0




DFP252012BF-1R5




DFP252012BF-2R2