Power Inductor

DFP4008TV-SERIES

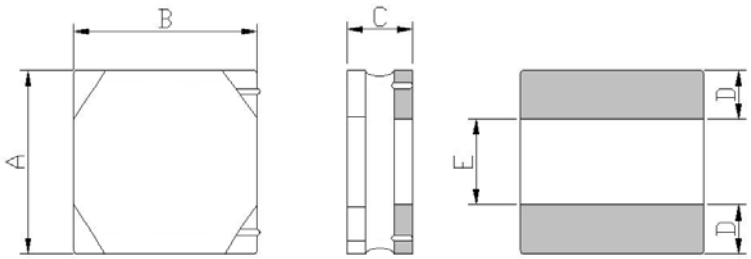
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature-55~+125℃ (Including self - temperature rise)
4. High reliability -Reliability tests comply with AEC-Q200

Halogen-free

RoHS

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP4008TV	4.0±0.2	4.0±0.2	0.7±0.1	1.2 ref.	1.6 ref.

Units: mm

3. Part Numbering

DFP	4008	T	V	-	2R2	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free
D: Category Code V=Vehicle
E: Inductance 2R2=2.2uH
F: 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
DFP4008TV-R47M	0.47	±20%	1V100K	0.080	0.096	5.00	4.50	3.00	2.50
DFP4008TV-R68M	0.68	±20%	1V100K	0.084	0.100	3.50	3.00	2.60	2.20
DFP4008TV-1R0M	1.0	±20%	1V100K	0.110	0.130	3.20	2.80	2.30	2.00
DFP4008TV-1R5M	1.5	±20%	1V100K	0.140	0.168	2.80	2.50	2.00	1.80
DFP4008TV-2R2M	2.2	±20%	1V100K	0.230	0.276	2.50	2.20	1.60	1.40
DFP4008TV-3R3M	3.3	±20%	1V100K	0.300	0.360	2.00	1.70	1.50	1.30
DFP4008TV-4R7M	4.7	±20%	1V100K	0.420	0.500	1.80	1.60	1.20	1.10
DFP4008TV-6R8M	6.8	±20%	1V100K	0.580	0.690	1.70	1.50	1.10	1.00
DFP4008TV-100M	10	±20%	1V100K	0.800	0.960	1.50	1.40	1.00	0.90

Note:

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

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

Measurement board data

Irms

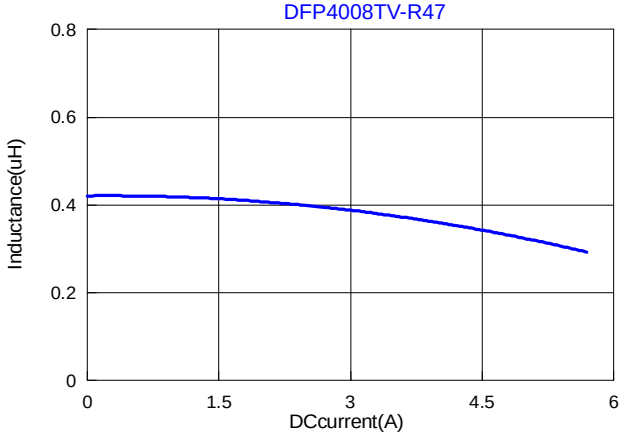
Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

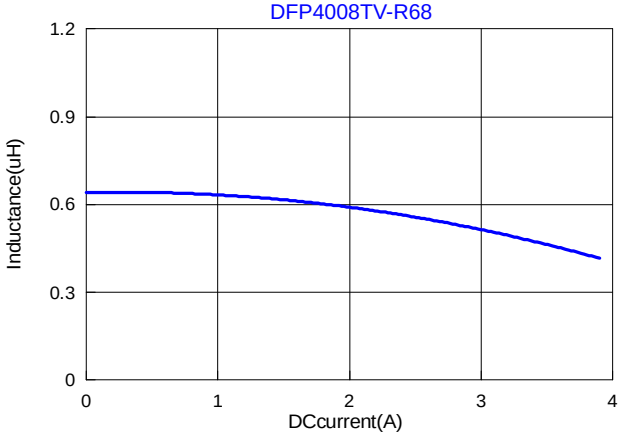
Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

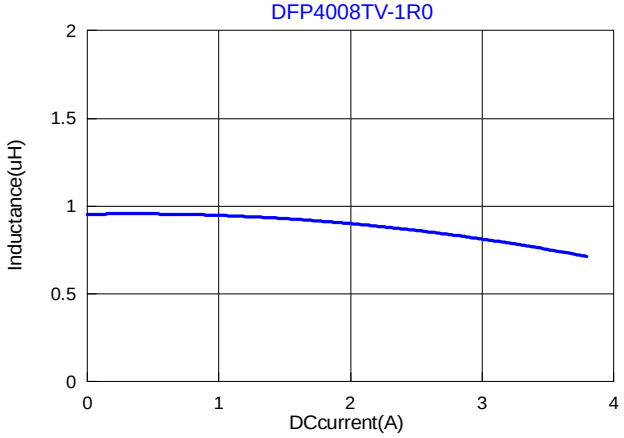
DFP4008TV-R47



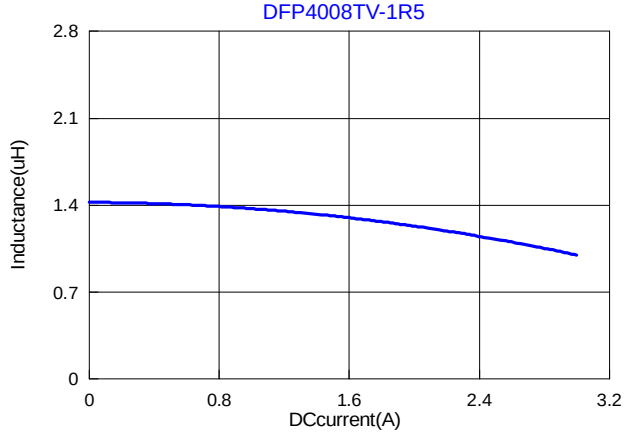
DFP4008TV-R68



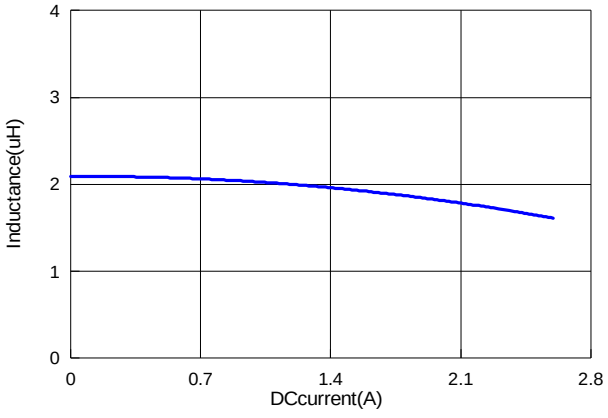
DFP4008TV-1R0



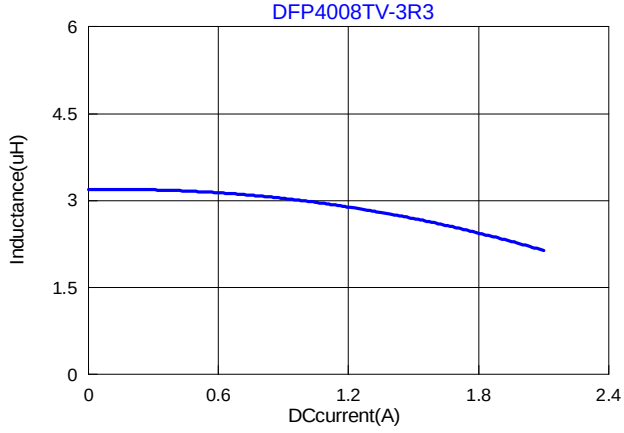
DFP4008TV-1R5



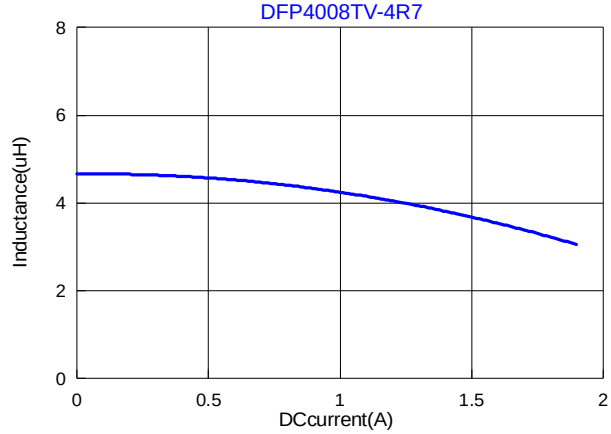
DFP4008TV-2R2



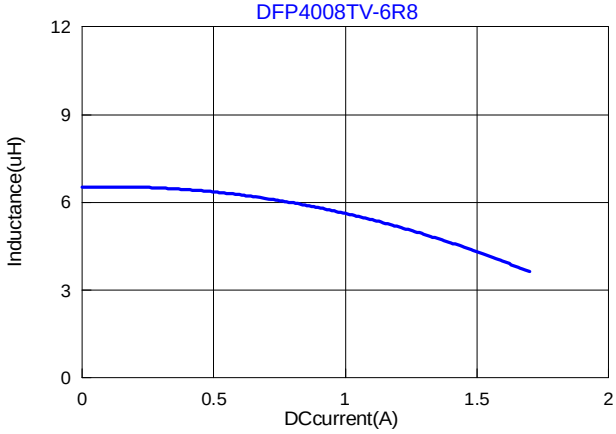
DFP4008TV-3R3



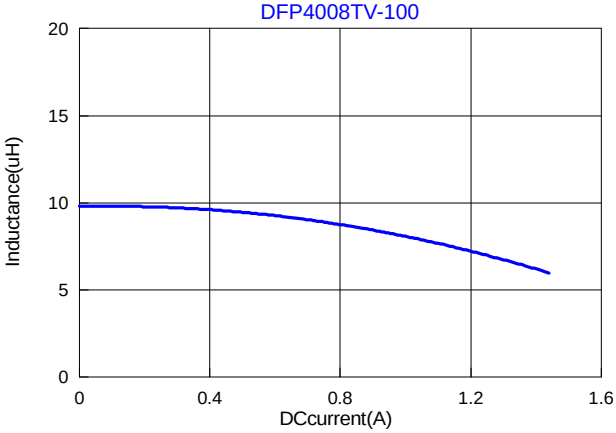
DFP4008TV-4R7



DFP4008TV-6R8



DFP4008TV-100



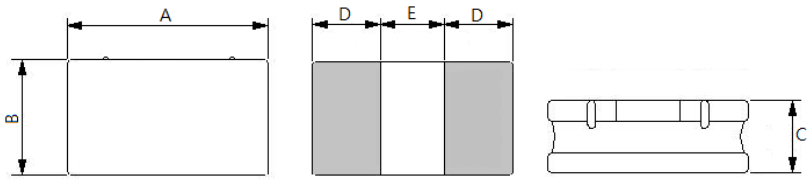
Power Inductor

DFP201208BV-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability test meet AEC-Q200
4. Operating temperature-55~+125℃ (Including self - temperature rise)

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201208BV	2.0 ± 0.2	1.2 ± 0.2	0.80Max	0.50 ref.	1.00 ref.

Units: mm

3. Part Numbering

DFP	201208	B	V	-	2R2	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free — Material
D: Category Code — V=Vehicle
E: Inductance — 2R2=2.2uH
F: Inductance Tolerance — M=±20%

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
DFP201208BV-R24M	0.24	±20	1V/1M	0.040	0.048	2.30	2.00	2.50	2.20
DFP201208BV-R47M	0.47	±20	1V/1M	0.050	0.060	1.80	1.50	2.00	1.70
DFP201208BV-R68M	0.68	±20	1V/1M	0.070	0.084	1.30	1.10	1.50	1.20
DFP201208BV-1R0M	1.0	±20	1V/1M	0.125	0.150	1.00	0.85	1.10	1.00
DFP201208BV-1R5M	1.5	±20	1V/1M	0.200	0.240	0.90	0.80	1.00	0.90
DFP201208BV-2R2M	2.2	±20	1V/1M	0.300	0.360	0.70	0.60	0.80	0.70
DFP201208BV-3R3M	3.3	±20	1V/1M	0.380	0.450	0.65	0.55	0.70	0.65
DFP201208BV-4R7M	4.7	±20	1V/1M	0.550	0.660	0.50	0.45	0.60	0.55
DFP201208BV-6R8M	6.8	±20	1V/1M	0.800	0.960	0.45	0.40	0.50	0.40
DFP201208BV-100M	10.0	±20	1V/1M	1.100	0.130	0.35	0.30	0.40	0.35

Note:

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

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

Measurement board data

Irms

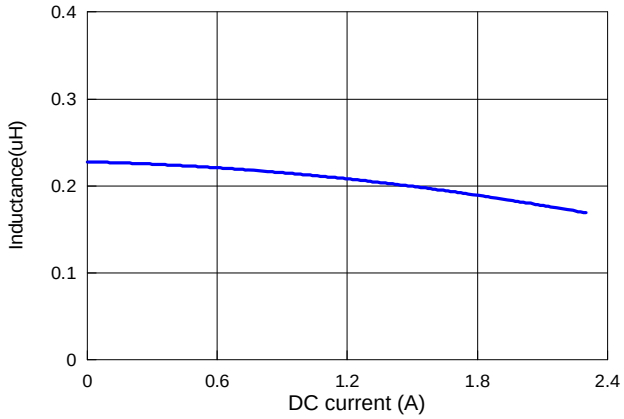
Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

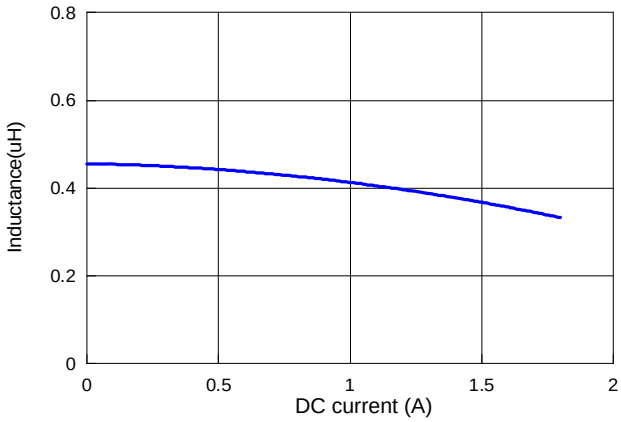
Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

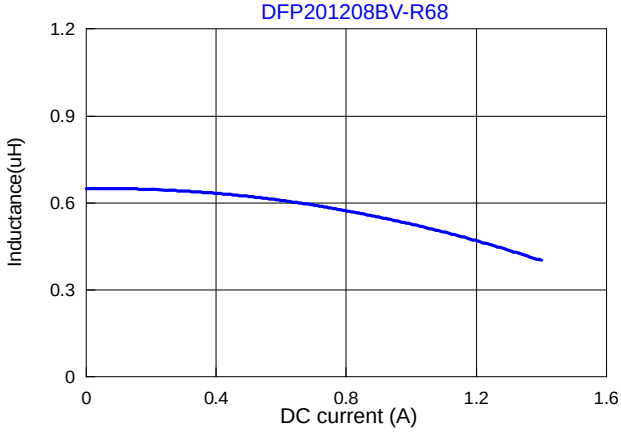
DFP201208BV-R24



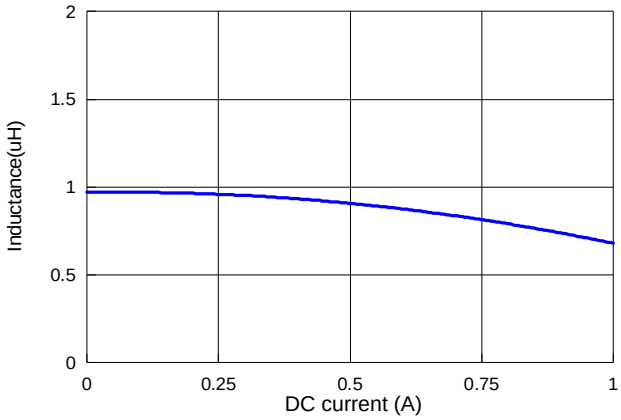
DFP201208BV-R47



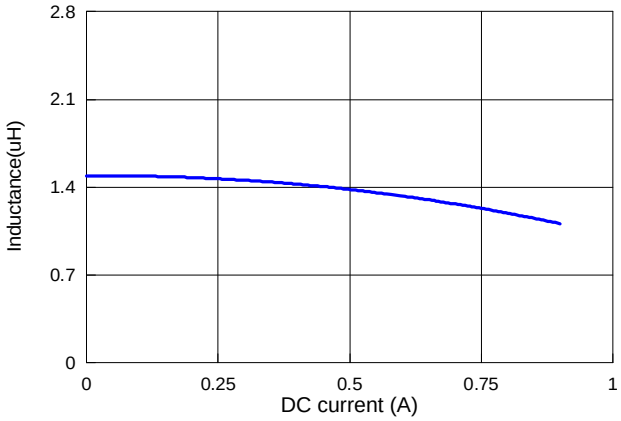
DFP201208BV-R68



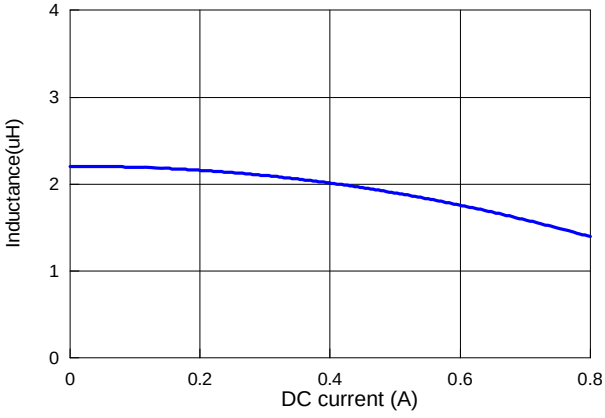
DFP201208BV-1R0



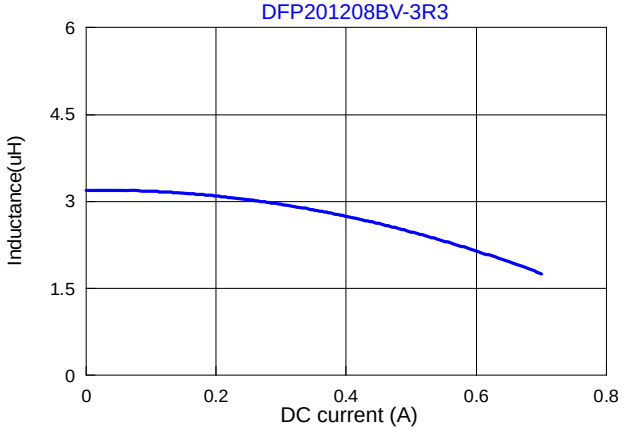
DFP201208BV-1R5



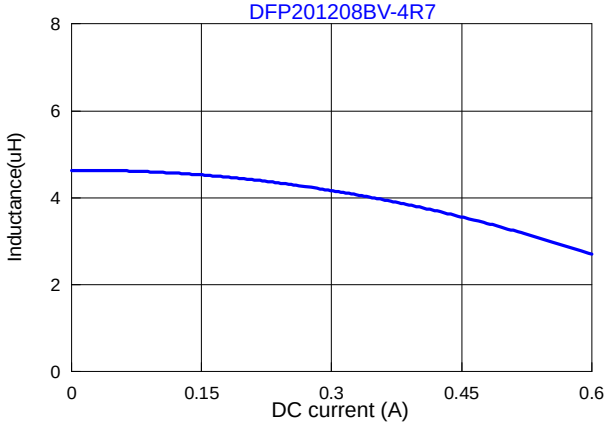
DFP201208BV-2R2



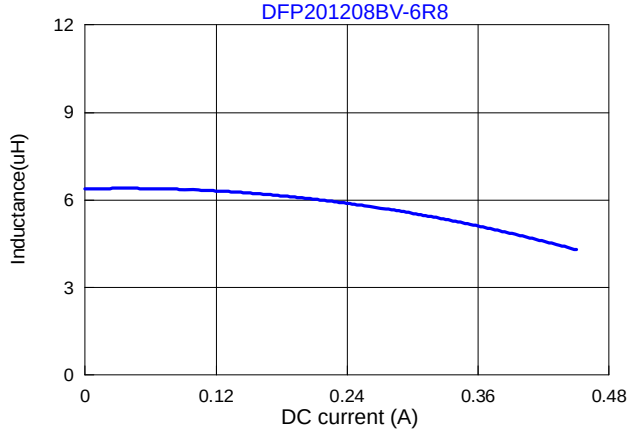
DFP201208BV-3R3



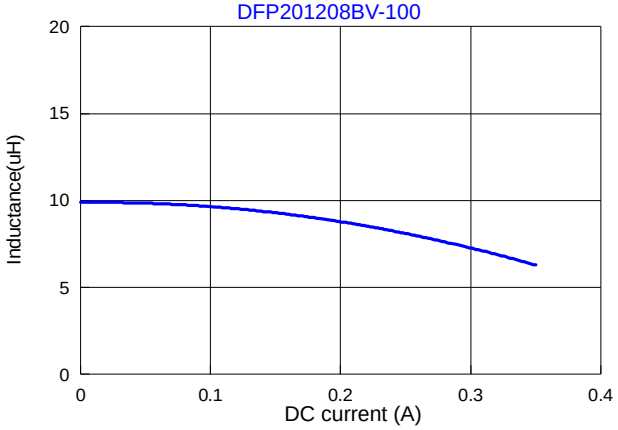
DFP201208BV-4R7



DFP201208BV-6R8



DFP201208BV-100



Power Inductor

DFP201210BV-SERIES

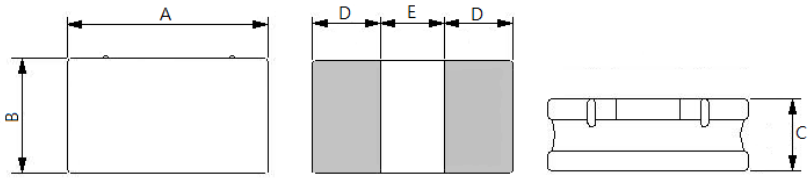
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability test meet AEC-Q200
4. Operating temperature-40~+125℃ (Including self - temperature rise)

Halogen-free

RoHS

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201210BV	2.0 ± 0.2	1.2 ± 0.2	1.0Max	0.50 ref.	1.00 ref.

Units: mm

3. Part Numbering

DFP	201210	B	V	-	2R2	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free — Material
D: Category Code — V=Vehicle
E: Inductance — 2R2=2.2uH
F: 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
DFP201210BV-R24M	0.24	±20	1V/1M	0.025	0.030	3.00	2.50	3.20	2.70
DFP201210BV-R33M	0.33	±20	1V/1M	0.035	0.042	2.40-	2.00	2.50	2.20
DFP201210BV-R47M	0.47	±20	1V/1M	0.048	0.058	1.90	1.60	2.00	1.70
DFP201210BV-R68M	0.68	±20	1V/1M	0.065	0.078	1.60	1.30	1.70	1.40
DFP201210BV-1R0M	1.0	±20	1V/1M	0.080	0.096	1.30	1.10	1.40	1.20
DFP201210BV-1R5M	1.5	±20	1V/1M	0.110	0.130	1.05	095	1.10	1.00
DFP201210BV-2R2M	2.2	±20	1V/1M	0.210	0.250	1.00	0.90	0.95	0.90
DFP201210BV-3R3M	3.3	±20	1V/1M	0.330	0.400	0.80	0.70	0.85	0.75
DFP201210BV-4R7M	4.7	±20	1V/1M	0.440	0.530	0.60	0.55	0.70	0.60
DFP201210BV-6R8M	6.8	±20	1V/1M	0.680	0.800	0.55	0.50	0.50	0.40
DFP201210BV-100M	10.0	±20	1V/1M	1.200	1.440	0.45	0.40	0.40	0.30

Note:

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

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

Measurement board data

Irms

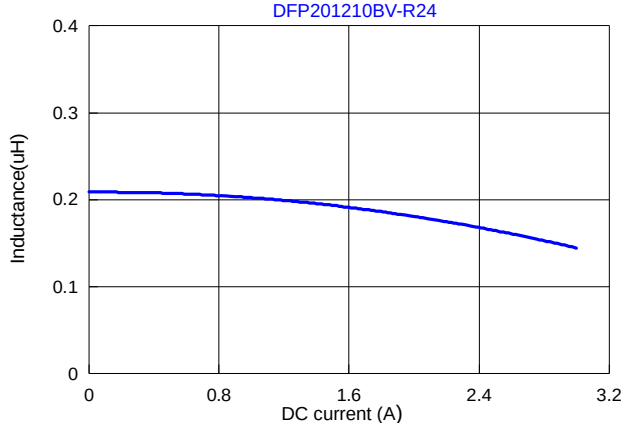
Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

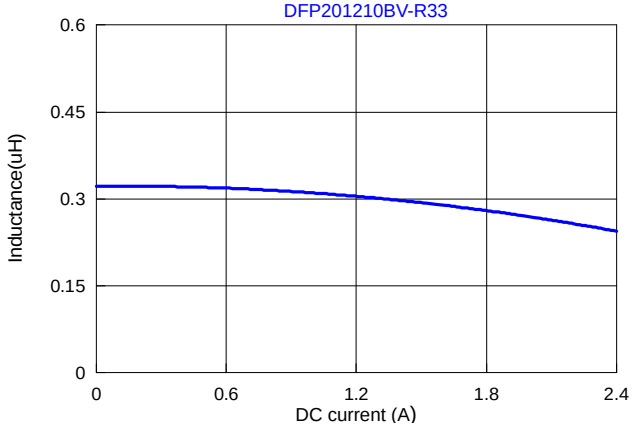
Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

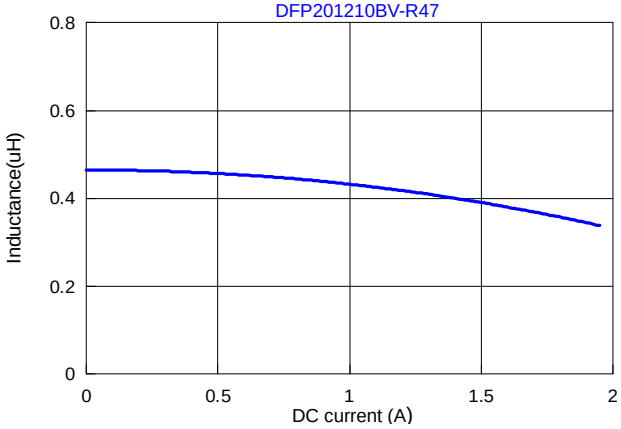
DFP201210BV-R24



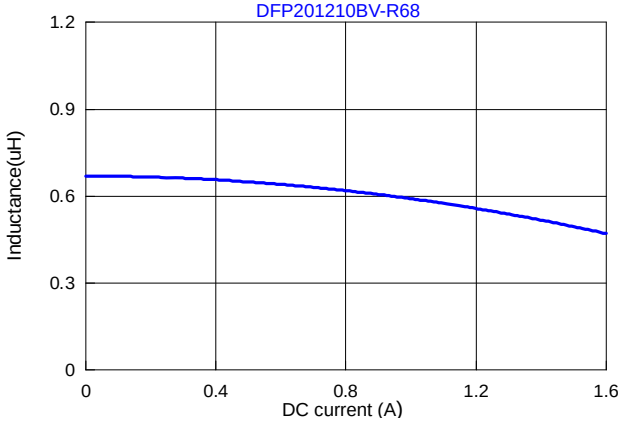
DFP201210BV-R33



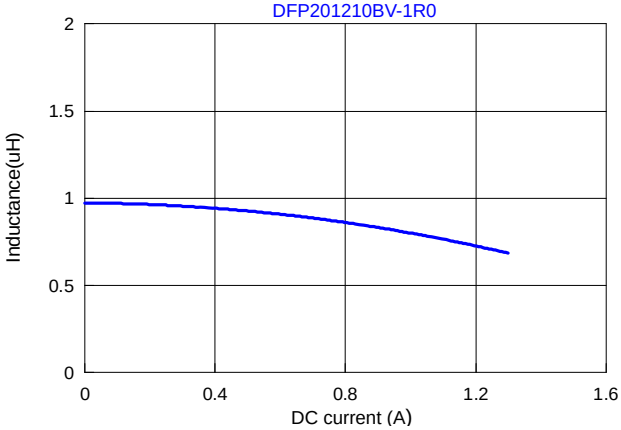
DFP201210BV-R47



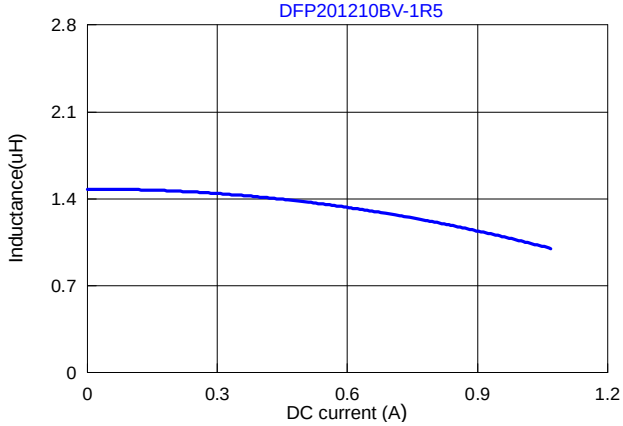
DFP201210BV-R68



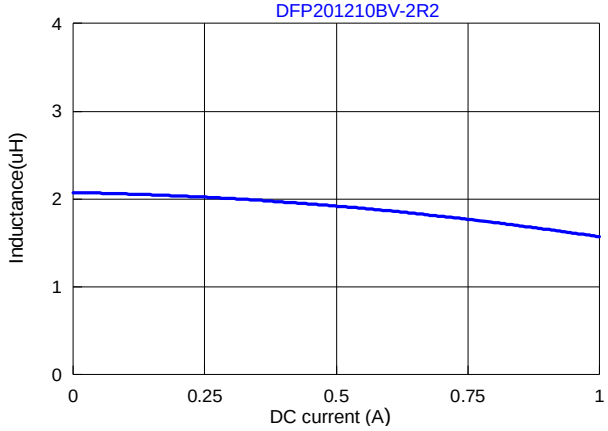
DFP201210BV-1R0



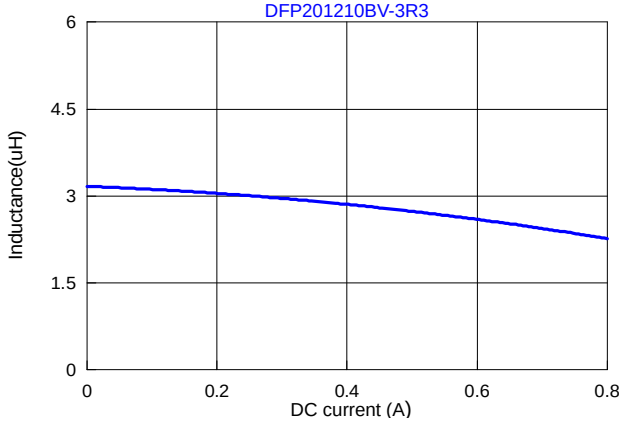
DFP201210BV-1R5



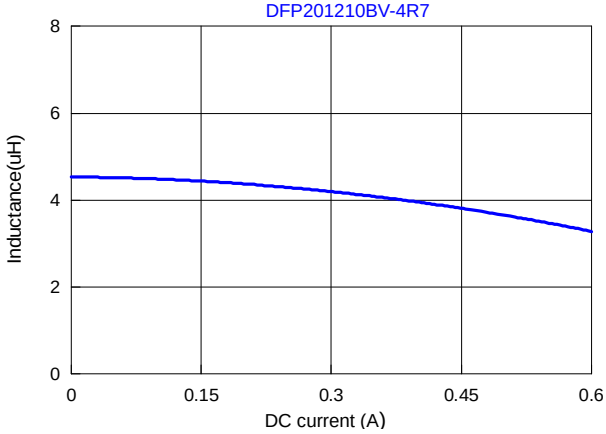
DFP201210BV-2R2



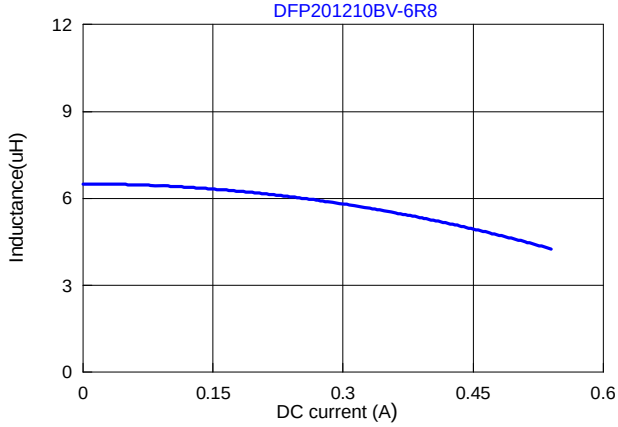
DFP201210BV-3R3



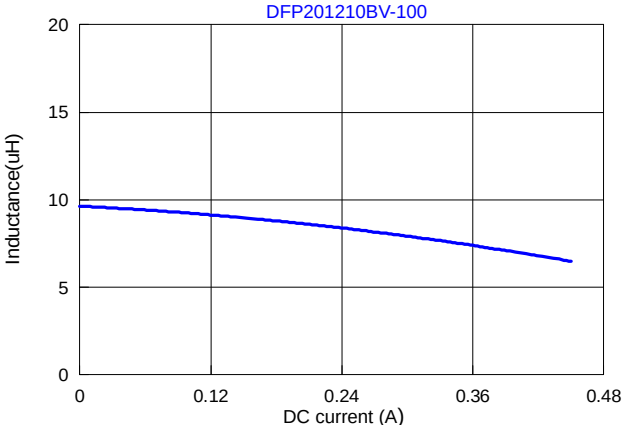
DFP201210BV-4R7



DFP201210BV-6R8



DFP201210BV-100



Power Inductor

DFP201610TV-SERIES

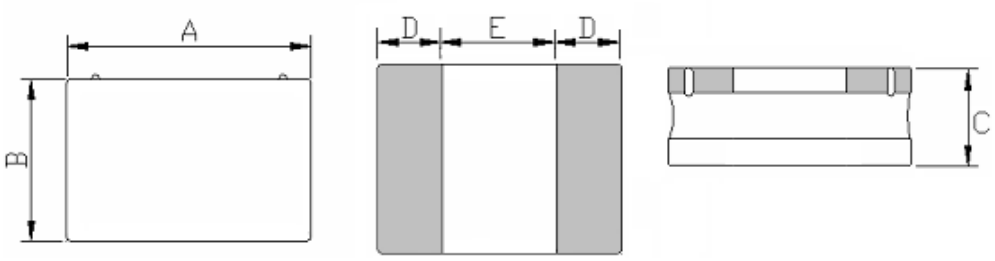
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability test meet AEC-Q200
4. Operating temperature-55~+125℃ (Including self - temperature rise)

Halogen-free

RoHS

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201610TV	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

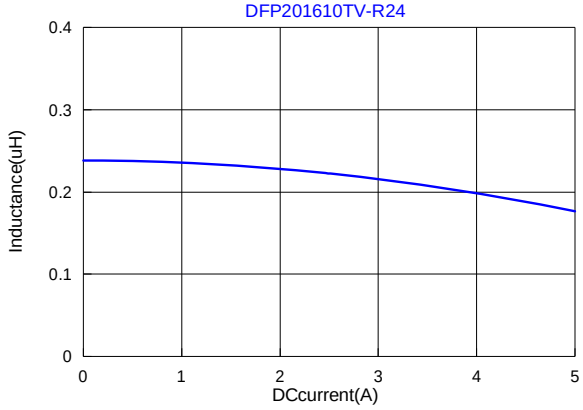
DFP	201610	T	V	-	R24	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free — Material
D: Category Code — V=Vehicle
E: Inductance — R24=0.24uH
F: Inductance Tolerance — M=±20%

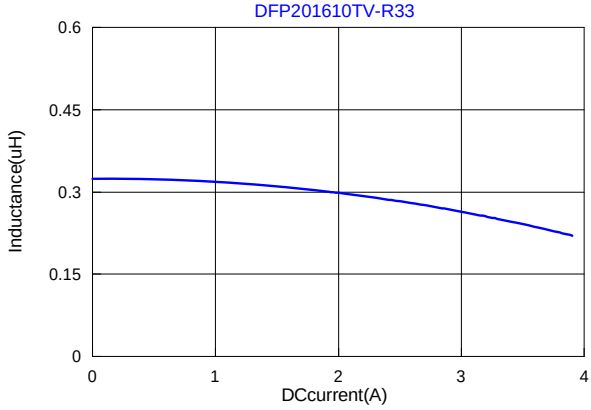
4. Specification

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
DFP201610TV-R24M	0.24	±20%	0.1V/1M	0.023	0.028	5.10	4.50	4.40	3.90
DFP201610TV-R33M	0.33	±20%	0.1V/1M	0.031	0.040	3.90	3.50	3.50	3.10
DFP201610TV-R47M	0.47	±20%	0.1V/1M	0.035	0.042	3.85	3.40	3.30	3.00
DFP201610TV-R68M	0.68	±20%	0.1V/1M	0.046	0.055	3.25	2.80	2.80	2.50
DFP201610TV-1R0M	1.0	±20%	0.1V/1M	0.059	0.072	2.90	2.50	2.40	2.20
DFP201610TV-1R5M	1.5	±20%	0.1V/1M	0.098	0.118	2.30	1.80	2.10	1.80
DFP201610TV-2R2M	2.2	±20%	0.1V/1M	0.141	0.170	2.10	1.70	1.70	1.55

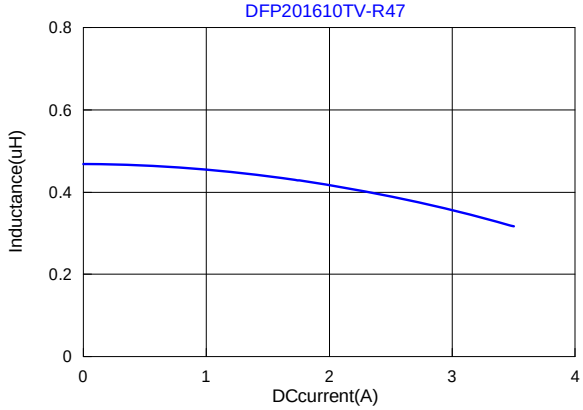
DFP201610TV-R24



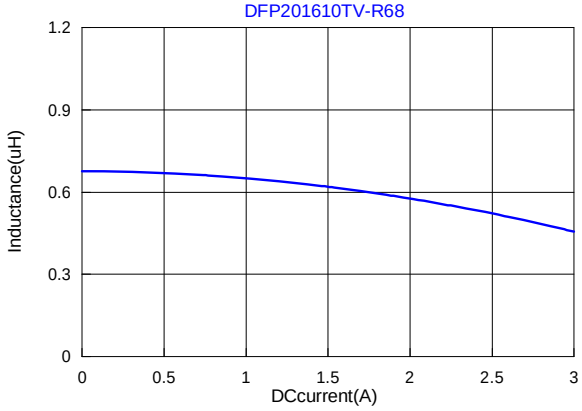
DFP201610TV-R33



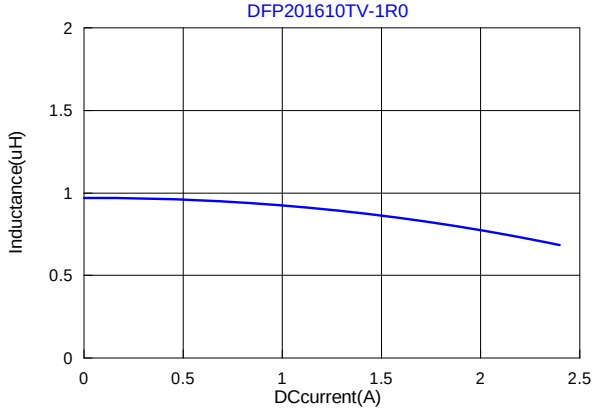
DFP201610TV-R47



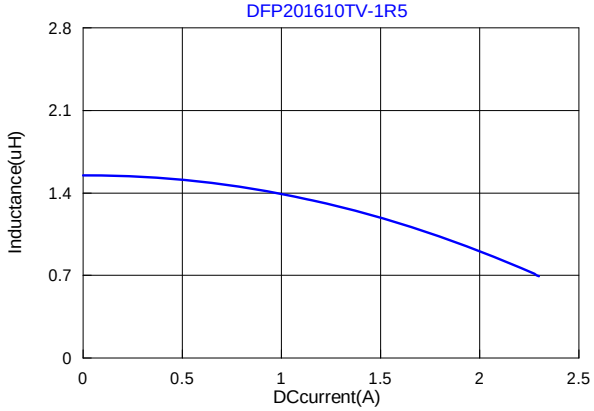
DFP201610TV-R68



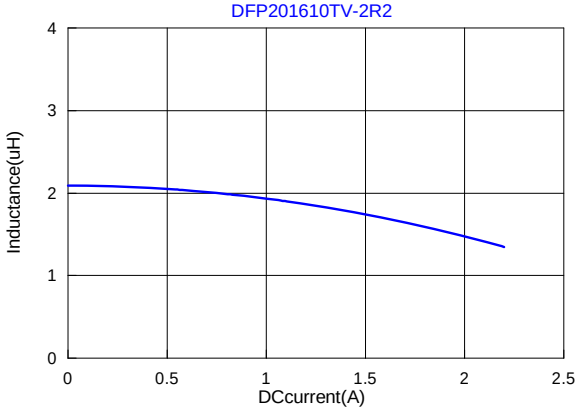
DFP201610TV-1R0



DFP201610TV-1R5



DFP201610TV-2R2



Power Inductor

DFP201612NV-SERIES

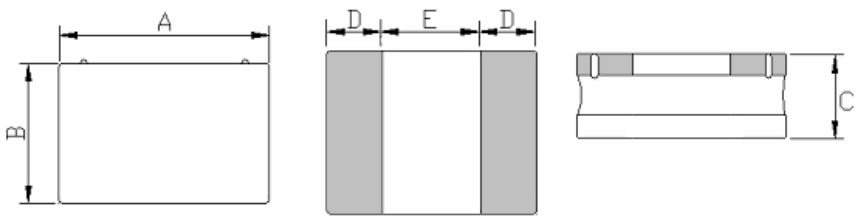
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability test meet AEC-Q200
4. Operating temperature-55~+125℃ (Including self - temperature rise)

Halogen-free

RoHS

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201612NV	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

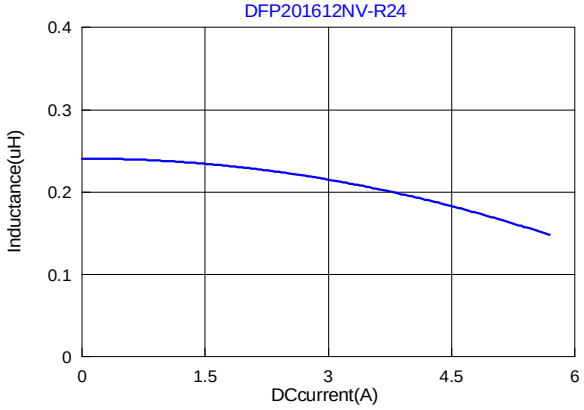
DFP	201612	N	V	-	R24	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free — Material
D: Category Code — V=Vehicle
E: Inductance — R24=0.24uH
F: Inductance Tolerance — M=±20%

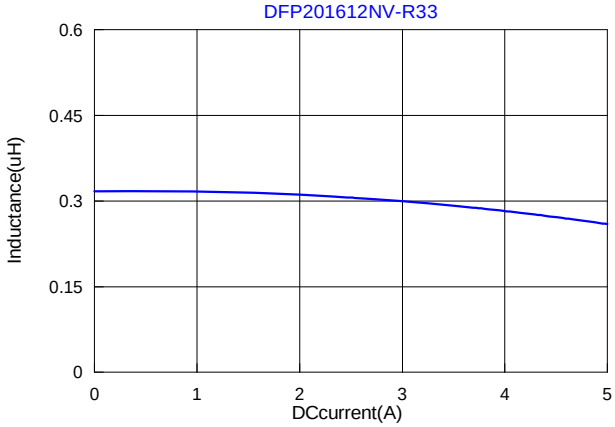
4. Specification

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.
DFP201612NV-R24M	0.24	±20%	0.1V/1M	0.025	0.033	5.40	4.80	4.00	3.50
DFP201612NV-R33M	0.33	±20%	0.1V/1M	0.027	0.034	4.70	3.90	3.90	3.20
DFP201612NV-R47M	0.47	±20%	0.1V/1M	0.035	0.046	3.90	3.50	3.30	2.90
DFP201612NV-R56M	0.56	±20%	0.1V/1M	0.053	0.064	3.50	3.00	3.00	2.60
DFP201612NV-R68M	0.68	±20%	0.1V/1M	0.055	0.066	3.30	2.80	3.00	2.60
DFP201612NV-1R0M	1.0	±20%	0.1V/1M	0.080	0.104	3.00	2.50	2.70	2.30
DFP201612NV-1R2M	1.2	±20%	0.1V/1M	0.088	0.106	3.00	2.50	2.70	2.30
DFP201612NV-1R5M	1.5	±20%	0.1V/1M	0.090	0.108	2.50	2.00	2.10	1.80
DFP201612NV-2R2M	2.2	±20%	0.1V/1M	0.155	0.186	2.00	1.60	1.50	1.30

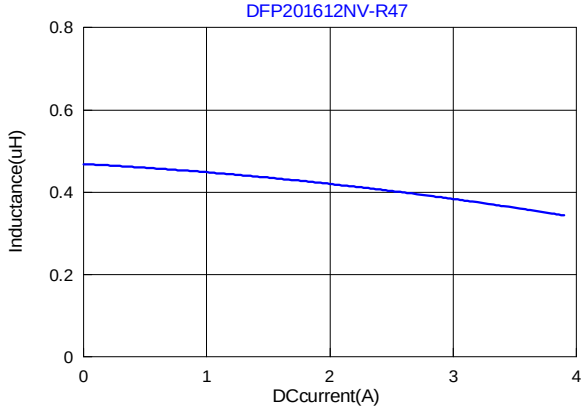
DFP201612NV-R24



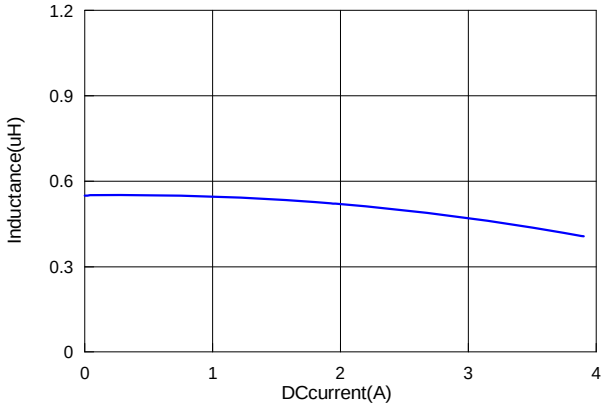
DFP201612NV-R33



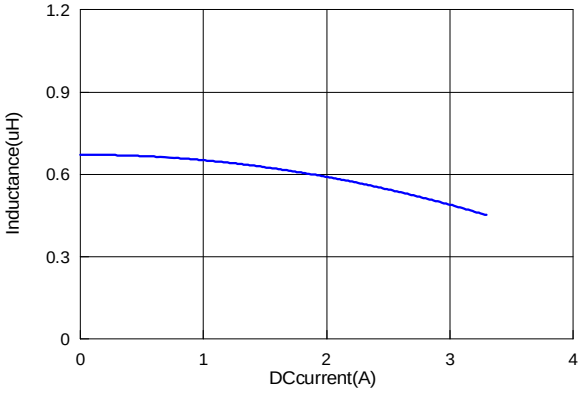
DFP201612NV-R47



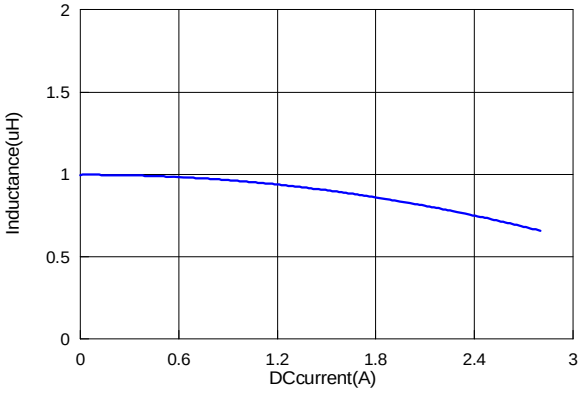
DFP201612NV-R56



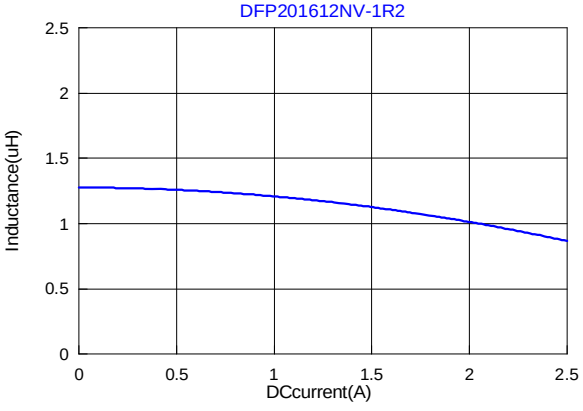
DFP201612NV-R68



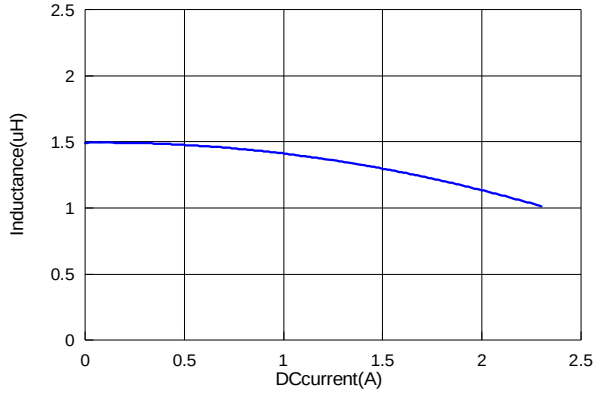
DFP201612NV-1R0

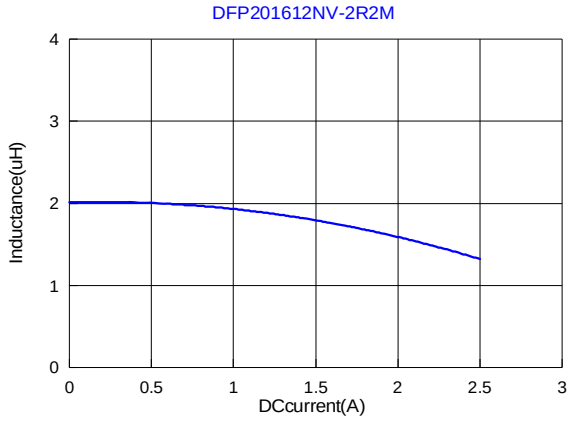


DFP201612NV-1R2



DFP201612NV-1R5




DFP201612NV-2R2M
Inductance(uH)
DCcurrent(A)
0
1
2
3
4
0
0.5
1
1.5
2
2.5
3

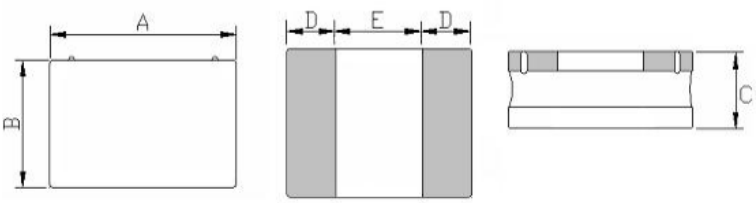
Power Inductor

DFP252010NV-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply with AEC-Q200.
4. Operating temperature-55~+125℃(Including self - temperature rise)

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP252010NV	2.5 -0.1/+0.2	2.0 -0.05/+0.35	1.0Max	0.85 ref.	0.80 ref.

Units: mm

3. Part Numbering

DFP	252010	N	V	-	R47	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free — Material
D: Category Code — V=Vehicle
E: Inductance — R47=0.47uH
F: Inductance Tolerance — M=±20%

4. Specification

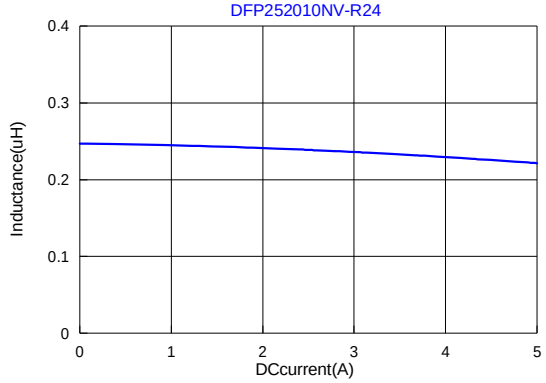
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A) typ.	I sat (A) Max.	I rms (A) typ	I rms (A) Max.
DFP252010NV-R24M	0.24	±20%	0.1V/1M	0.030	0.042	4.80	4.30	3.60	3.10
DFP252010NV-R33M	0.33	±20%	0.1V/1M	0.032	0.044	4.30	3.80	3.50	3.00
DFP252010NV-R47M	0.47	±20%	0.1V/1M	0.034	0.046	4.00	3.30	3.40	2.90
DFP252010NV-R56M	0.56	±20%	0.1V/1M	0.045	0.054	3.80	3.00	3.30	2.80
DFP252010NV-R68M	0.68	±20%	0.1V/1M	0.046	0.055	3.70	2.90	3.30	2.80
DFP252010NV-1R0M	1.0	±20%	0.1V/1M	0.060	0.080	3.40	2.70	2.60	2.20
DFP252010NV-1R2M	1.2	±20%	0.1V/1M	0.090	0.108	2.90	2.30	2.30	1.90
DFP252010NV-1R5M	1.5	±20%	0.1V/1M	0.090	0.108	2.70	2.10	2.30	1.90
DFP252010NV-2R2M	2.2	±20%	0.1V/1M	0.130	0.169	2.40	1.90	1.80	1.50

Note:

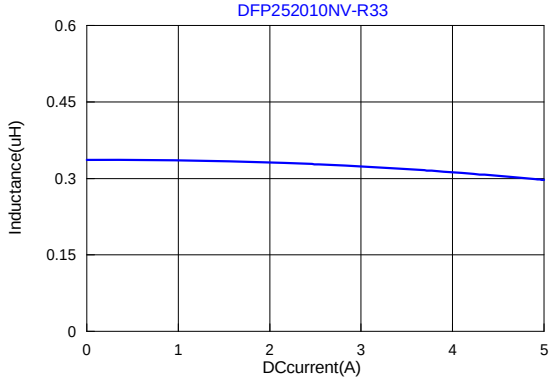
Isat：Based on inductance change （△L/L0：≦30%）@ ambient temp. 25℃

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

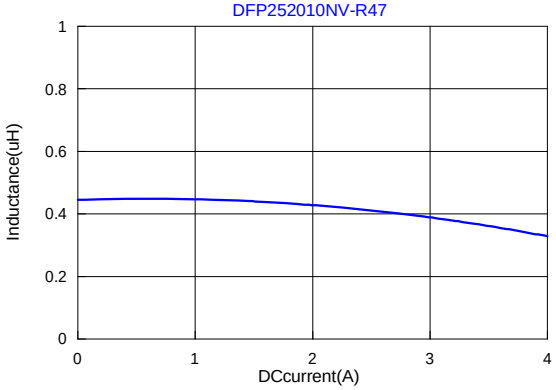
DFP252010NV-R24



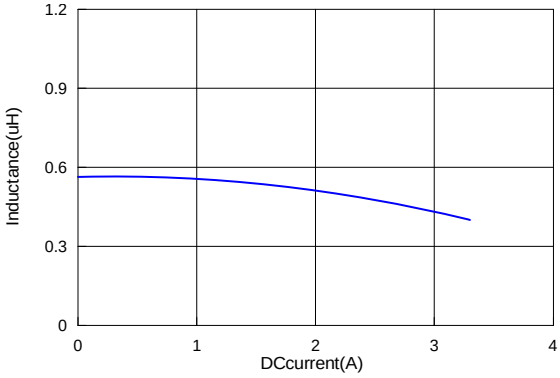
DFP252010NV-R33



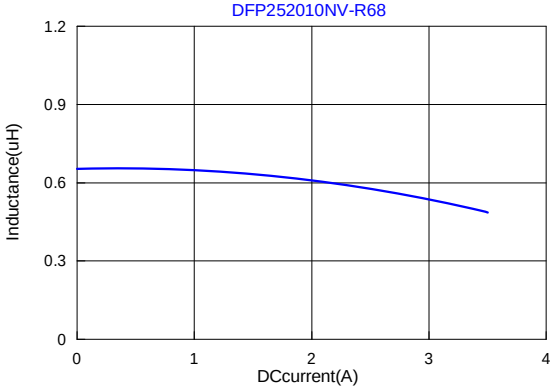
DFP252010NV-R47



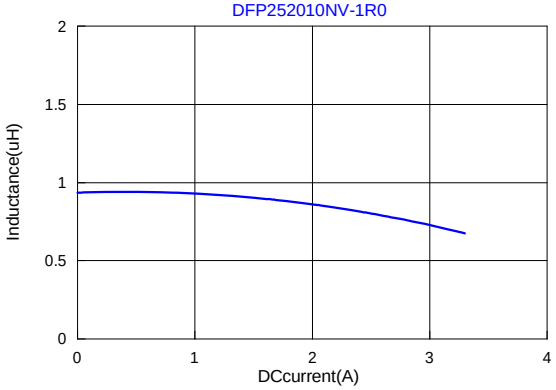
DPF252010NV-R56



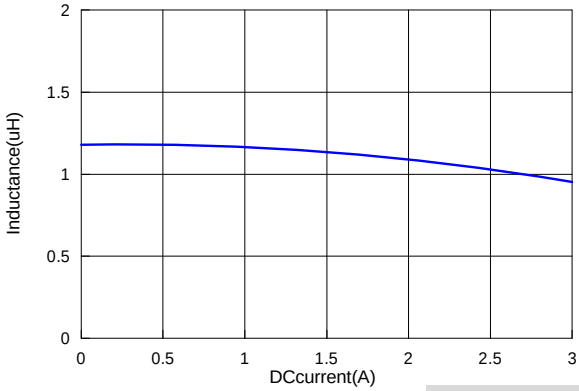
DFP252010NV-R68



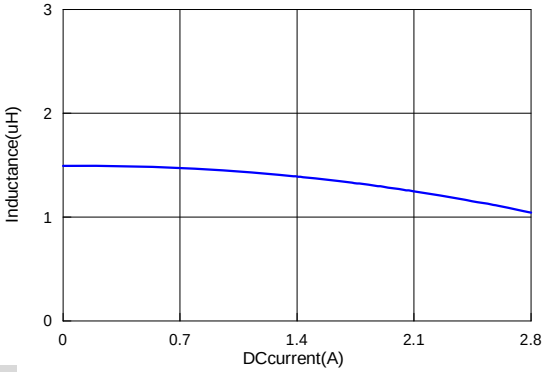
DFP252010NV-1R0

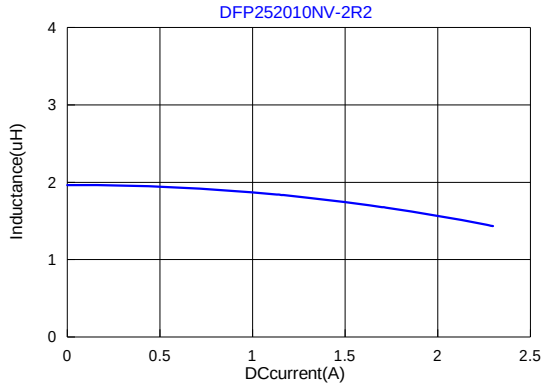


DPF252010NV-1R2



DFP252010NV-1R5




DFP252010NV-2R2
Inductance(uH)
DCcurrent(A)
0
1
2
3
4
0
0.5
1
1.5
2
2.5

Power Inductor

DFP252012TV-SERIES

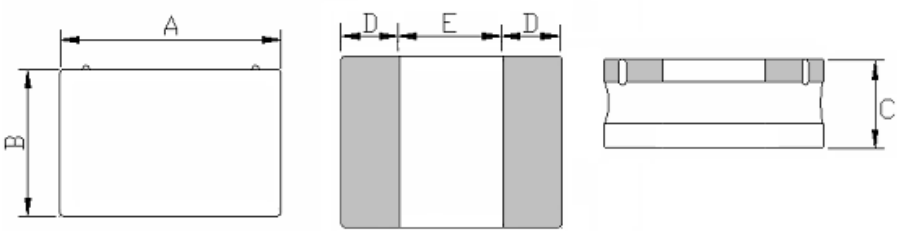
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability test meet AEC-Q200
4. Operating temperature-55~+125℃ (Including self - temperature rise)

Halogen-free

RoHS

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP252012TV	2.5 -0.1/+0.2	2.0 -0.05/+0.35	1.2Max	0.85 ref.	0.80 ref.

Units: mm

3. Part Numbering

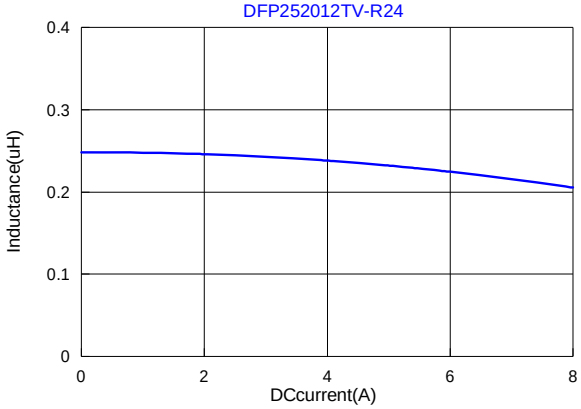
DFP	252012	T	V	-	R47	M
A	B	C	D		E	F

A: Series
B: Dimension
C: Lead Free — Material
D: Category Code — V=Vehicle
E: Inductance — R47=0.47uH
F: Inductance Tolerance — M=±20%

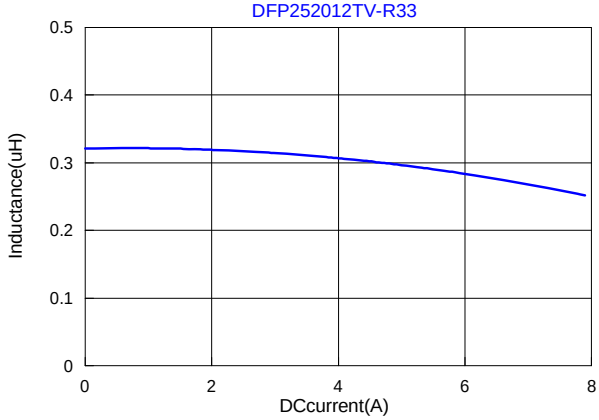
4. Specification

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
DFP252012TV-R24M	0.24	±20%	0.1V/1M	0.020	0.024	8.00	6.50	4.70
DFP252012TV-R33M	0.33	±20%	0.1V/1M	0.027	0.032	5.70	4.60	4.50
DFP252012TV-R47M	0.47	±20%	0.1V/1M	0.027	0.032	5.50	4.50	4.40
DFP252012TV-R68M	0.68	±20%	0.1V/1M	0.036	0.043	4.50	3.80	3.60
DFP252012TV-1R0M	1.0	±20%	0.1V/1M	0.045	0.057	3.90	3.40	3.50
DFP252012TV-1R5M	1.5	±20%	0.1V/1M	0.080	0.096	3.00	2.60	2.50
DFP252012TV-2R2M	2.2	±20%	0.1V/1M	0.085	0.102	2.70	2.30	2.30

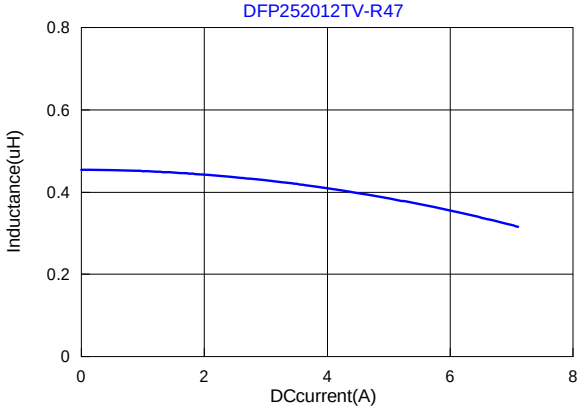
DFP252012TV-R24



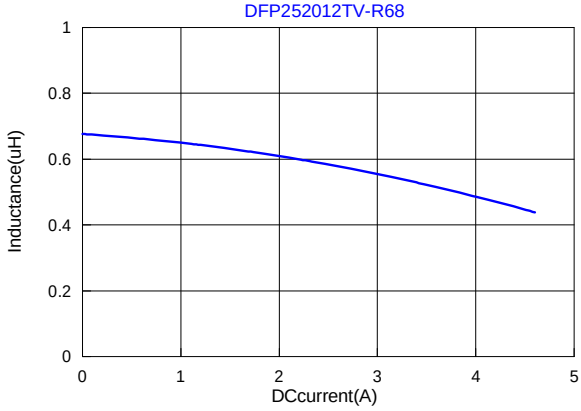
DFP252012TV-R33



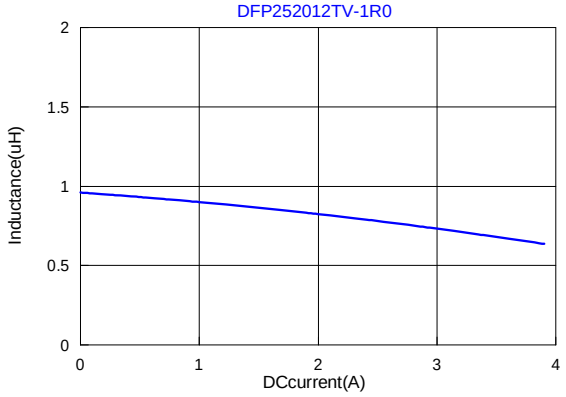
DFP252012TV-R47



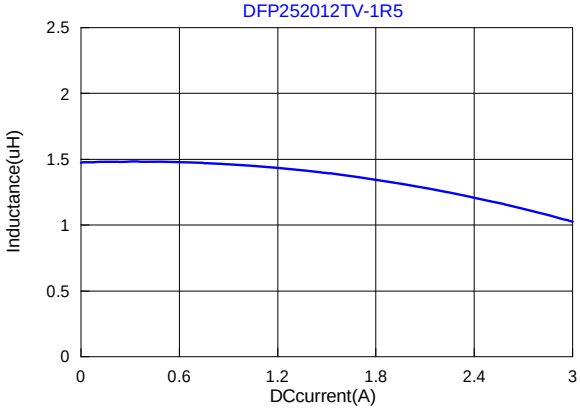
DFP252012TV-R68



DFP252012TV-1R0



DFP252012TV-1R5



DFP252012TV-2R2