

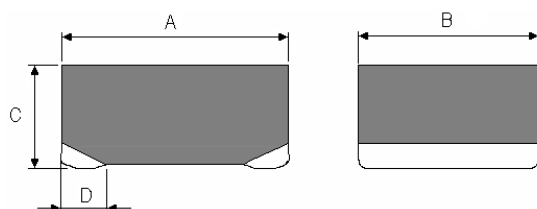
1. Features

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



Certificate
of
Green Partner

2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
201610	2.0±0.2	1.6±0.2	1.0 max.	0.5±0.3

3. Part Numbering

AWP **201610** **AF** - **R47** **M**

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

4. Specification

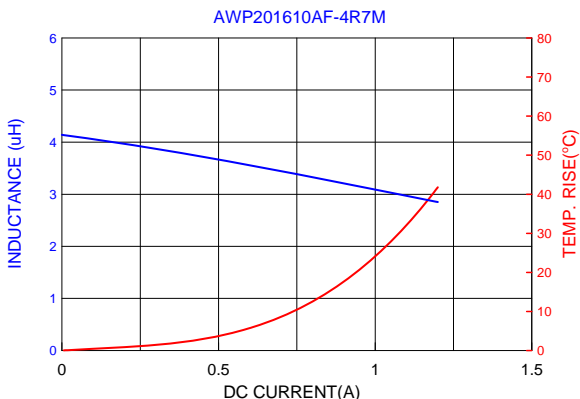
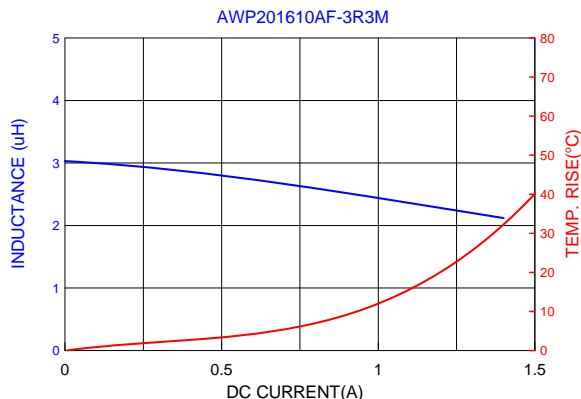
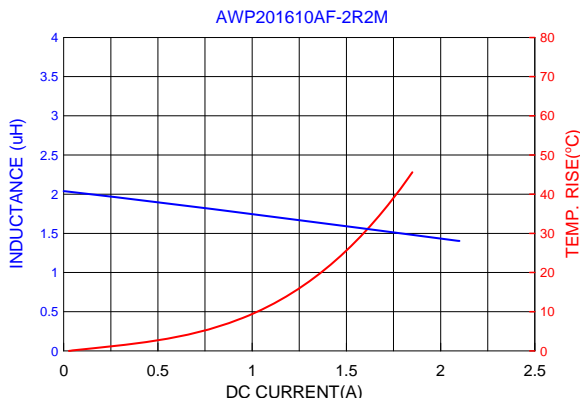
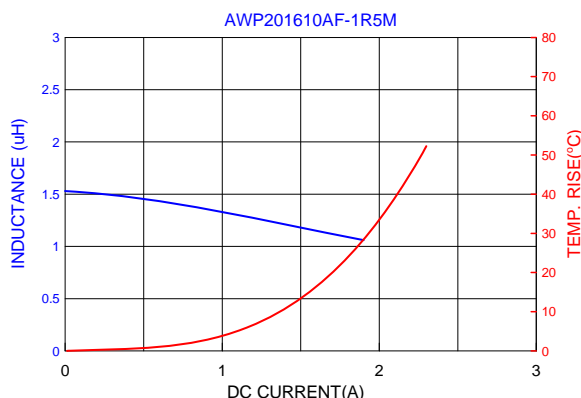
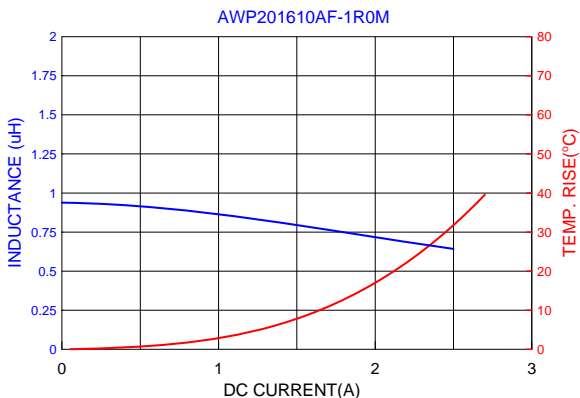
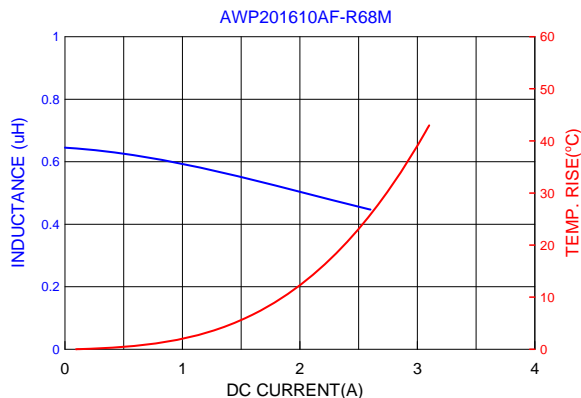
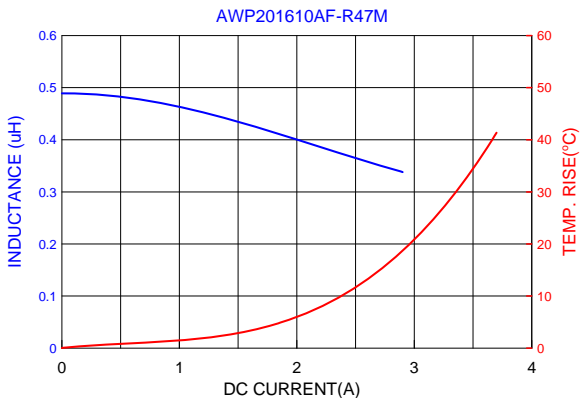
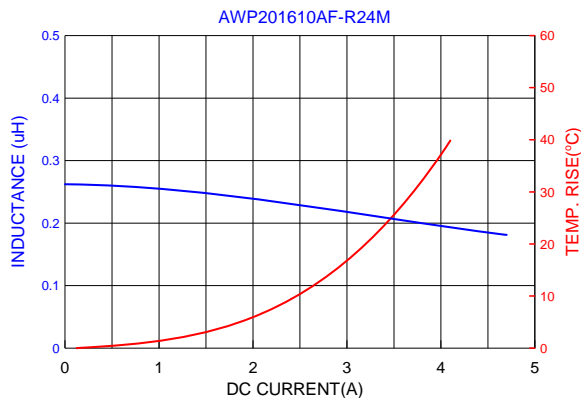
TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP201610AF-R24M	0.24±20%	1V/1M	0.048	0.040	4.20	4.70	3.00	3.30
AWP201610AF-R47M	0.47±20%	1V/1M	0.053	0.044	2.70	3.60	2.80	3.00
AWP201610AF-R68M	0.68±20%	1V/1M	0.073	0.061	2.35	2.60	2.35	2.90
AWP201610AF-1R0M	1.0±20%	1V/1M	0.084	0.070	2.20	2.50	2.20	2.50
AWP201610AF-1R5M	1.5±20%	1V/1M	0.138	0.115	1.60	1.90	1.65	1.90
AWP201610AF-2R2M	2.2±20%	1V/1M	0.186	0.155	1.50	1.80	1.50	1.60
AWP201610AF-3R3M	3.3±20%	1V/1M	0.276	0.230	1.15	1.40	1.20	1.45
AWP201610AF-4R7M	4.7±20%	1V/1M	0.396	0.330	1.00	1.20	0.95	1.15

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C.) Max

5. Typical Performance Curves



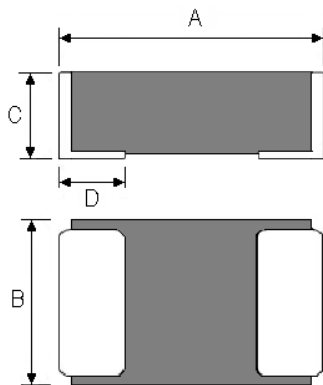
Power Inductors AWP201610BF-Series

1. Features

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



2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
201610	2.0±0.2	1.6±0.2	1.0 max.	0.5±0.3

3. Part Numbering



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

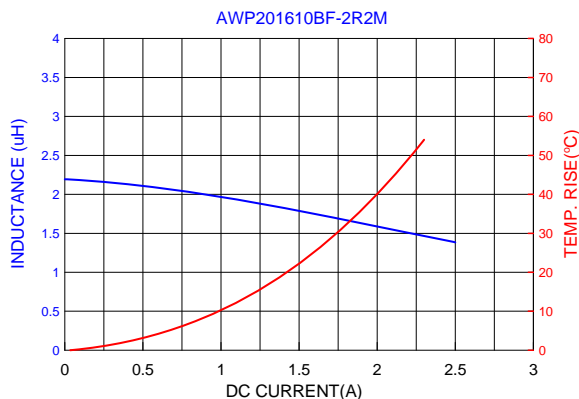
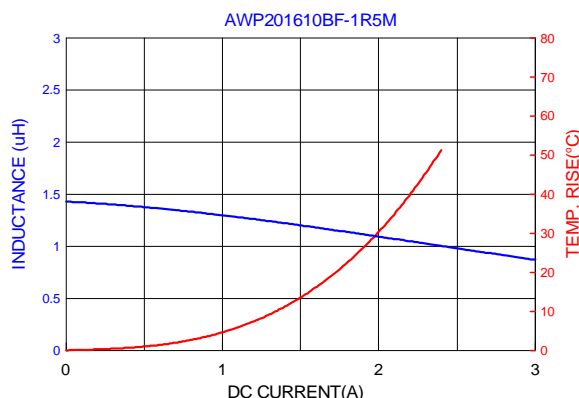
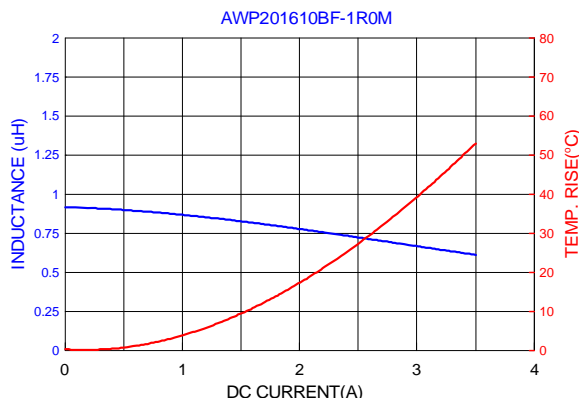
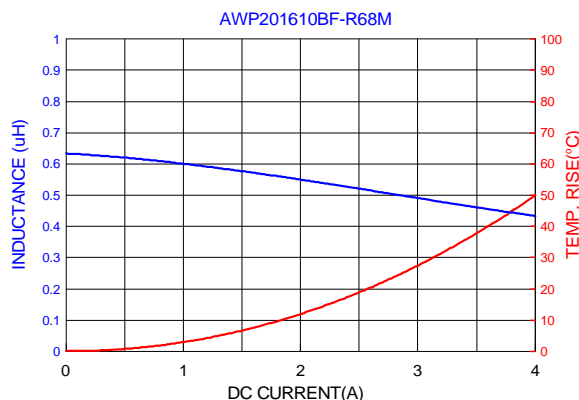
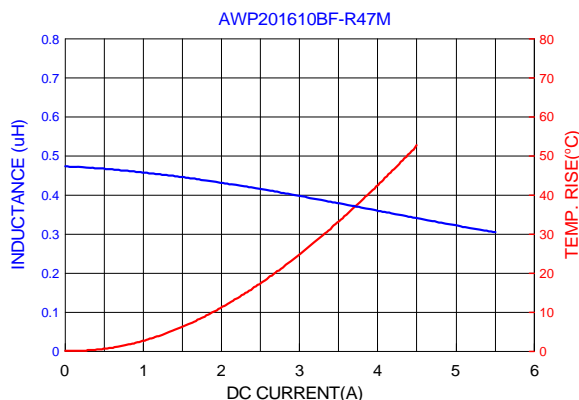
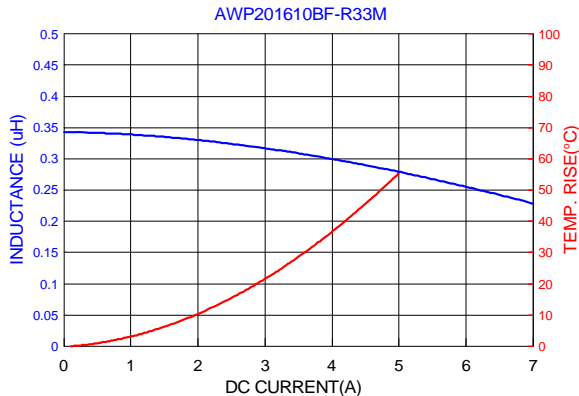
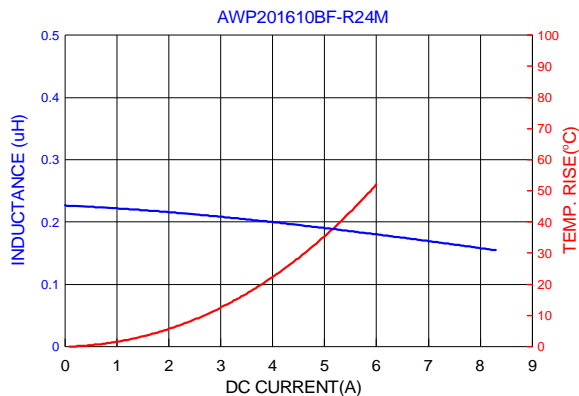
4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP201610BF-R24M	0.24±20%	1V/1M	0.022	0.018	5.05	5.50	4.50	5.00
AWP201610BF-R33M	0.33±20%	1V/1M	0.033	0.027	4.50	5.00	3.70	4.00
AWP201610BF-R47M	0.47±20%	1V/1M	0.045	0.037	4.00	4.40	3.15	3.50
AWP201610BF-R68M	0.68±20%	1V/1M	0.054	0.045	3.30	3.60	3.00	3.30
AWP201610BF-1R0M	1.0±20%	1V/1M	0.077	0.064	2.60	2.90	2.25	2.50
AWP201610BF-1R5M	1.5±20%	1V/1M	0.144	0.120	2.25	2.40	1.65	1.90
AWP201610BF-2R2M	2.2±20%	1V/1M	0.173	0.144	1.70	1.90	1.50	1.70

Note:

- Isat : Based on inductance change (ΔL/LO : ≤-30%) @ ambient temp. 25°C
- Irms : Based on temperature rise (ΔT : 40°C.) Max

5. Typical Performance Curves



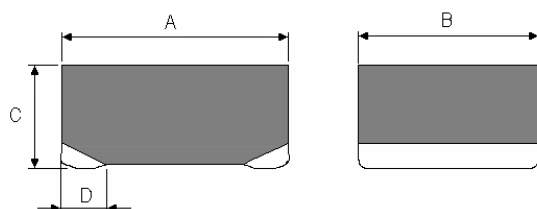
1. Features

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



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2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
252010	2.5±0.2	2.0±0.2	1.0 max.	0.5±0.3

3. Part Numbering

AWP **252010** **AF** - **R47** **M**

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

4. Specification

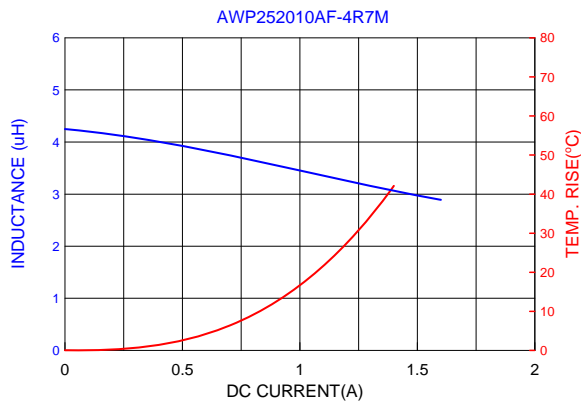
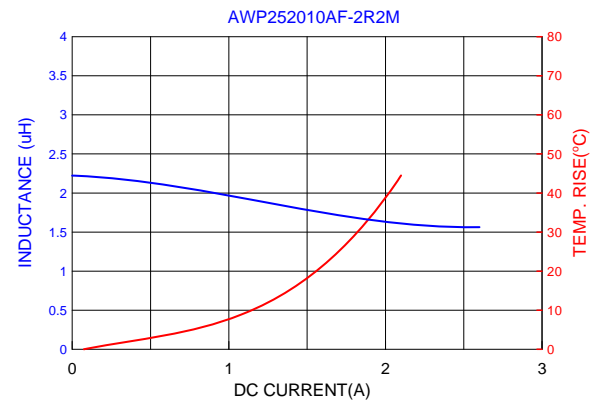
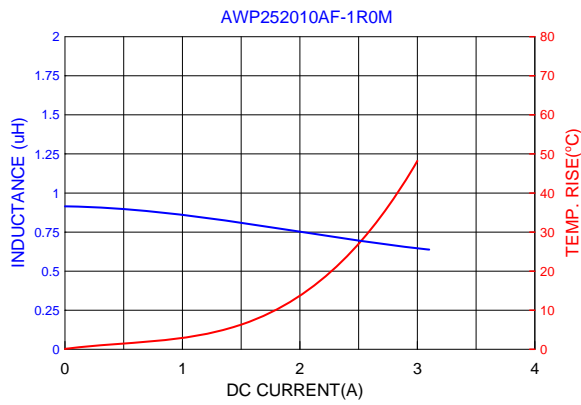
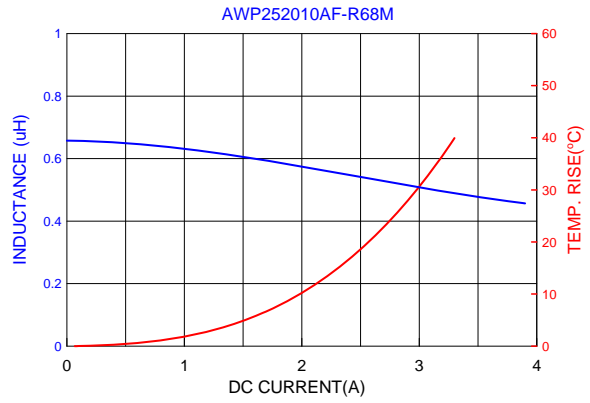
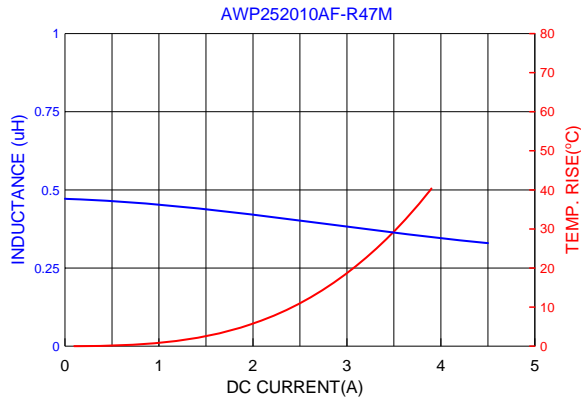
TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP252010AF-R47M	0.47±20%	1V/1M	0.048	0.040	4.00	4.50	3.20	3.60
AWP252010AF-R68M	0.68±20%	1V/1M	0.070	0.058	3.70	4.00	2.90	3.20
AWP252010AF-1R0M	1.0±20%	1V/1M	0.079	0.066	2.70	3.00	2.50	2.70
AWP252010AF-2R2M	2.2±20%	1V/1M	0.168	0.140	1.90	2.10	1.50	1.80
AWP252010AF-4R7M	4.7±20%	1V/1M	0.324	0.270	1.30	1.50	1.10	1.30

Note:

I_{sat} : Based on inductance change (ΔL/L₀ : ≤-30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C.) Max

5. Typical Performance Curves



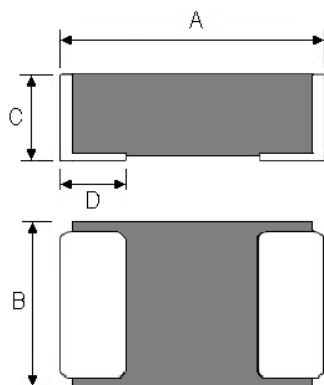
1.Features

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



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2.Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
252010	2.5±0.2	2.0±0.2	1.0 max.	0.6±0.3

3.Part Numbering



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

4.Specification

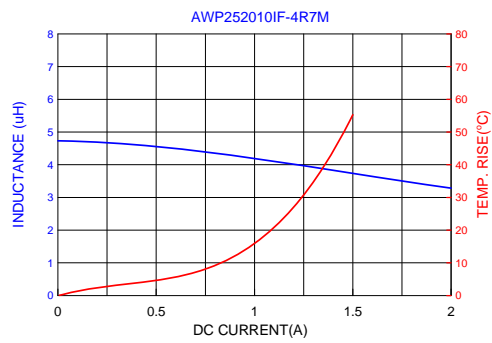
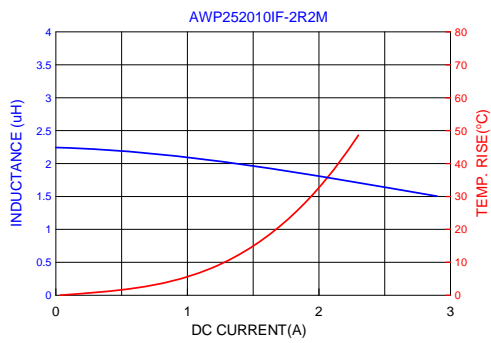
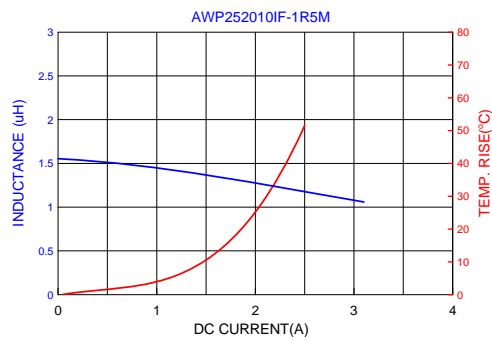
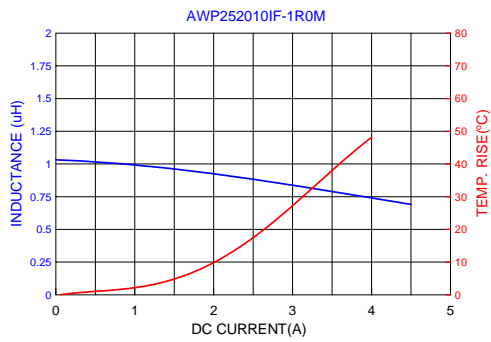
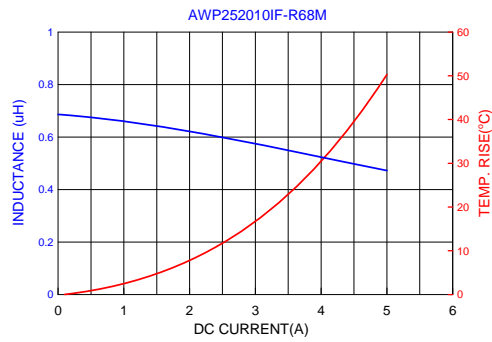
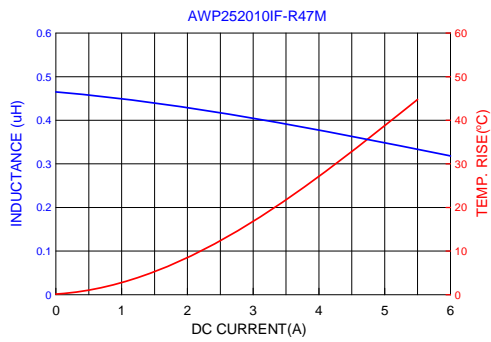
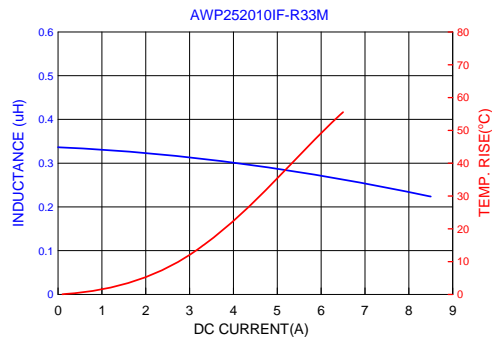
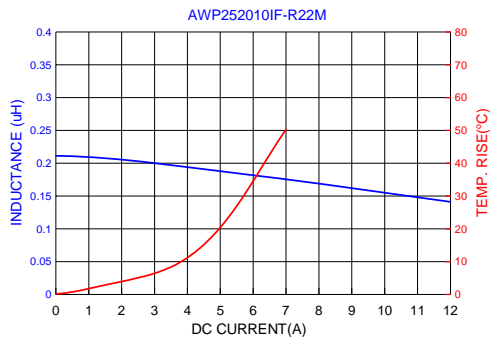
TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP252010IF-R22M	0.22±20%	1V/1M	0.0125	0.009	7.20	7.90	5.30	5.90
AWP252010IF-R33M	0.33±20%	1V/1M	0.026	0.021	6.00	6.60	4.00	4.40
AWP252010IF-R47M	0.47±20%	1V/1M	0.032	0.027	4.50	5.00	3.51	3.90
AWP252010IF-R68M	0.68±20%	1V/1M	0.044	0.037	3.87	4.30	3.06	3.40
AWP252010IF-1R0M	1.0±20%	1V/1M	0.054	0.045	3.15	3.50	2.70	3.00
AWP252010IF-1R5M	1.5±20%	1V/1M	0.092	0.076	2.35	2.60	2.25	2.50
AWP252010IF-2R2M	2.2±20%	1V/1M	0.130	0.108	2.15	2.30	2.05	2.30
AWP252010IF-4R7M	4.7±20%	1V/1M	0.262	0.220	1.62	1.80	1.22	1.36

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C.) Max

5. Typical Performance Curves



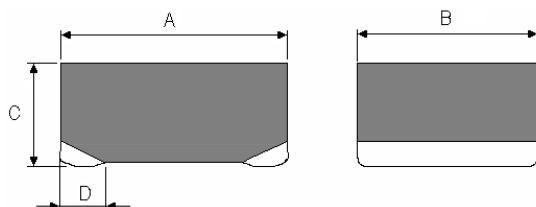
Power Inductors AWP252012AF-Series

1. Features

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

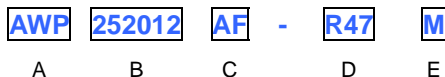


2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
252012	2.5±0.2	2.0±0.2	1.2 max.	0.5±0.3

3. Part Numbering



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

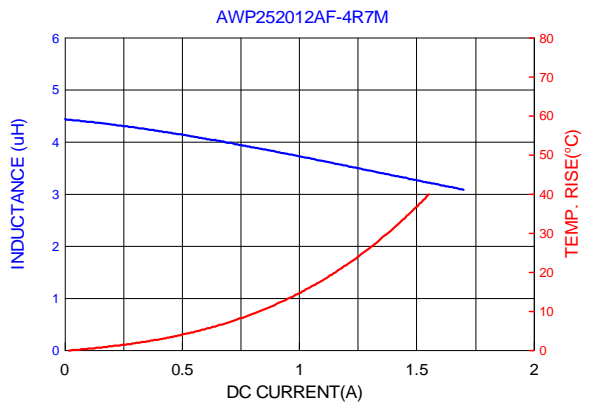
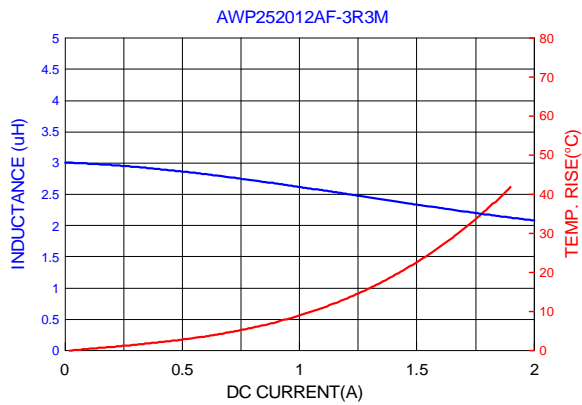
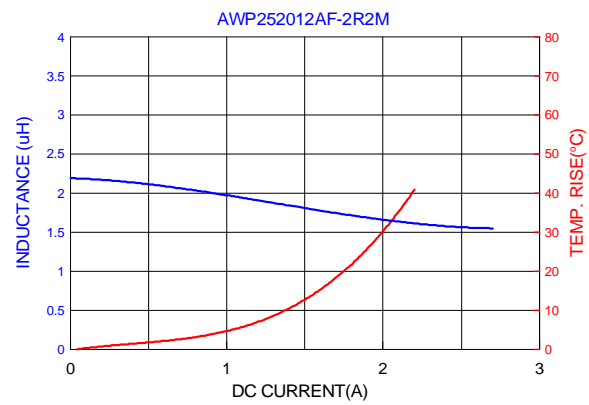
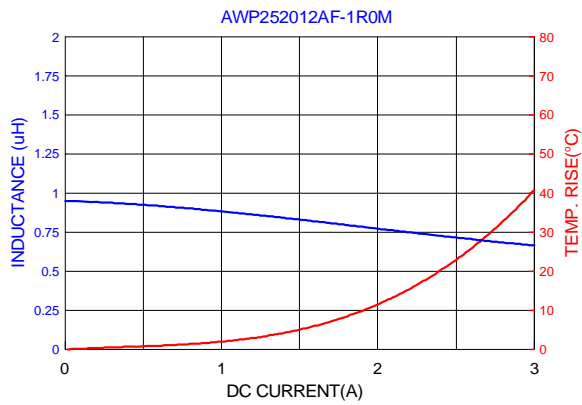
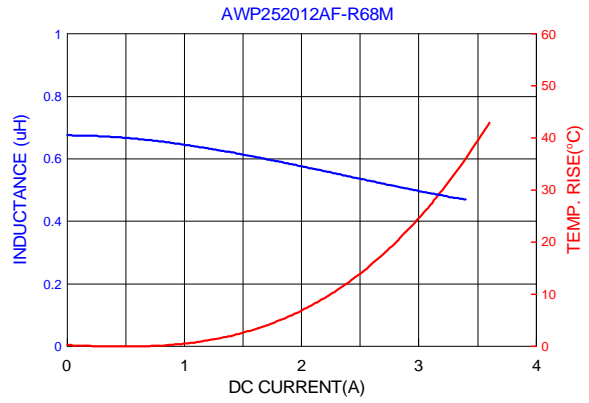
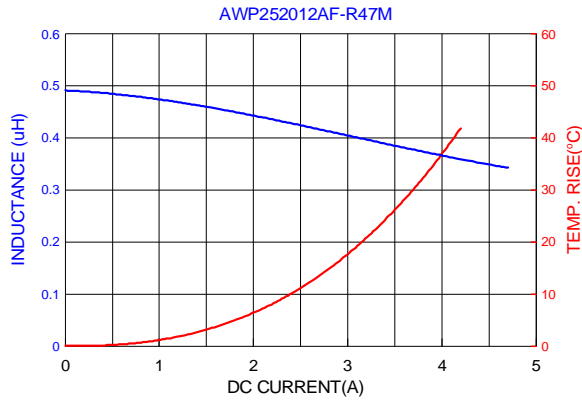
4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP252012AF-R47M	0.47±20%	1V/1M	0.039	0.029	4.00	4.50	3.50	3.80
AWP252012AF-R68M	0.68±20%	1V/1M	0.056	0.046	3.10	3.50	3.00	3.30
AWP252012AF-1R0M	1.0±20%	1V/1M	0.065	0.054	2.70	3.00	2.70	2.90
AWP252012AF-2R2M	2.2±20%	1V/1M	0.125	0.104	2.20	2.50	2.00	2.20
AWP252012AF-3R3M	3.3±20%	1V/1M	0.167	0.139	1.70	1.90	1.70	1.90
AWP252012AF-4R7M	4.7±20%	1V/1M	0.260	0.198	1.40	1.60	1.40	1.60

Note:

- I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C
- I_{rms} : Based on temperature rise (ΔT : 40°C.) Max

5. Typical Performance Curves



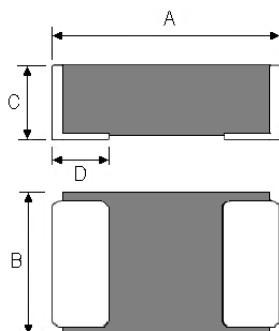
1.Features

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



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2.Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
252012	2.5±0.2	2.0±0.2	1.2 max.	0.6±0.3

3.Part Numbering

AWP **252012** **IF** - **1R0** **M**

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

4.Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP252012IF-R47M	0.47±20%	1V/1M	0.025	0.021	4.95	5.30	4.18	4.60
AWP252012IF-R68M	0.68±20%	1V/1M	0.035	0.029	4.63	5.00	3.36	3.70
AWP252012IF-1R0M	1.0±20%	1V/1M	0.057	0.048	3.50	4.00	3.18	3.50
AWP252012IF-1R5M	1.5±20%	1V/1M	0.077	0.064	2.91	3.20	2.27	2.50
AWP252012IF-2R2M	2.2±20%	1V/1M	0.105	0.088	2.50	2.70	2.06	2.27
AWP252012IF-4R7M	4.7±20%	1V/1M	0.235	0.196	1.58	1.90	1.40	1.55

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C.) Max

5. Typical Performance Curves

