

High Current Ferrite Chip Inductor (Lead Free)

CPI160809UF-Series

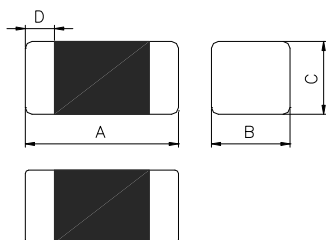
1. Features

- 1.6x0.8 mm and 0.95 mm in height (very compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class.
- High speed mounting: Using SMT mounter makes less than a second mounting possible.
- Excellent mounting strength by SMD chip making.
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
Completely lead-free product and support lead-free solder.



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2. Dimensions



Chip Size				
Series	A(mm)	B(mm)	C(mm)	D(mm)
160809	1.6±0.15	0.8±0.15	0.95 max.	0.3±0.2

3. Part Numbering

CPI **160809** **U** **F** - **1R0** **M** - **0A7**

- A: Series
- B: Dimension
- C: Category Code
- D: Material
- E: Inductance
- F: Inductance Tolerance
- G: Rated Current

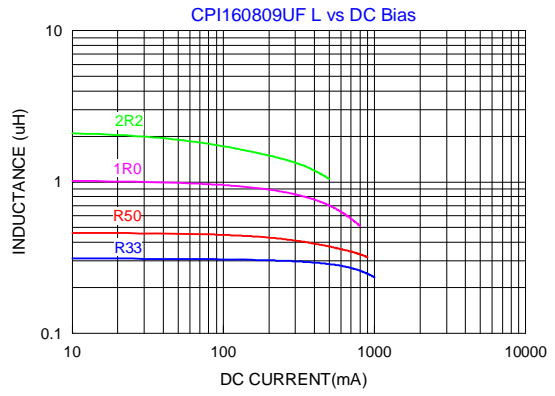
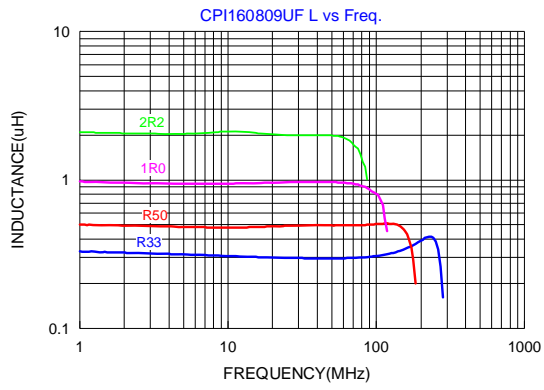
Lead Free Material
1R0=1.0uH
M=±20%

4. Specification

Tai-Tech Part Number	Inductance(uH)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω)	
				max.	typ.
CPI160809UF-R33M-0A3	0.33±20%	1M / 60mV	350	0.35	0.27
CPI160809UF-R50M-0A9	0.50±20%	1M / 60mV	900	0.15	0.12
CPI160809UF-1R0M-0A7	1.0±20%	1M / 60mV	750	0.20	0.17
CPI160809UF-2R2M-0A6	2.2±20%	1M / 60mV	650	0.30	0.27

- Rated current: based on temperature rise test
- In compliance with EIA 595

Typical Inductance v.s. Frequency Curve



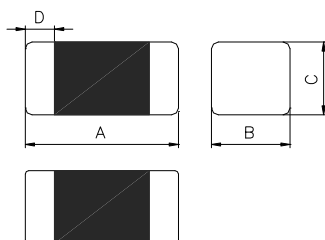
1. Features

- 2.0x1.25 mm and 1.0 mm in height (very compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class.
- High speed mounting: Using SMT mounter makes less than a second mounting possible.
- Excellent mounting strength by SMD chip making.
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
Completely lead-free product and support lead-free solder.



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2. Dimensions



Chip Size				
Series	A(mm)	B(mm)	C(mm)	D(mm)
201210	2.0±0.2	1.25±0.2	1.0 max.	0.5±0.3

3. Part Numbering

CPI **201210** **U** **F** - **2R2** **M** - **0A8**

A B C D E F G

A: Series
B: Dimension
C: Category Code
D: Material
E: Inductance
F: Inductance Tolerance
G: Rated Current

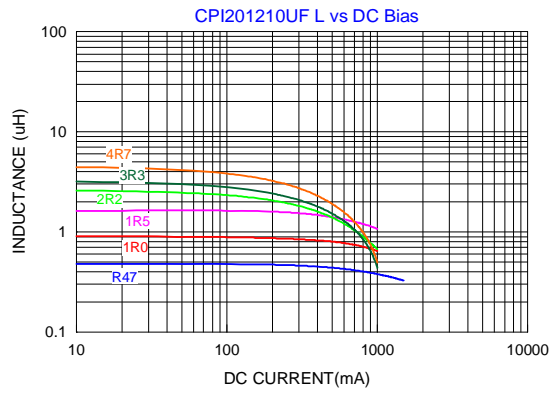
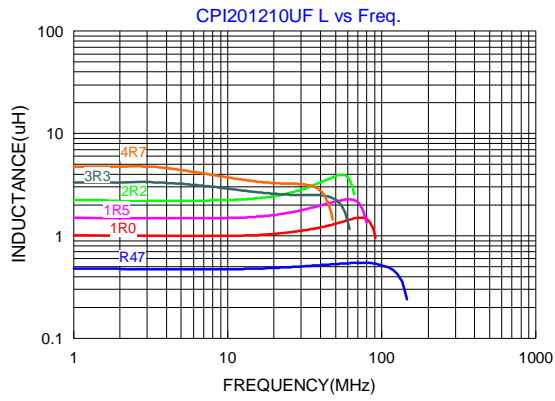
Lead Free Material
2R2=2.2uH
M=±20%
0A8=800mA

4. Specification

Tai-Tech Part Number	Inductance(uH)	Test Frequency (Hz)	Rated Current (mA) max.	DCR (Ω)	
				max.	typ.
CPI201210UF-R47M-1A2	0.47±20%	1M / 60mV	1200	0.08	0.06
CPI201210UF-1R0M-1A0	1.0±20%	1M / 60mV	1000	0.14	0.11
CPI201210UF-1R5M-0A8	1.5±20%	1M / 60mV	800	0.20	0.15
CPI201210UF-2R2M-0A8	2.2±20%	1M / 60mV	800	0.20	0.15
CPI201210UF-3R3M-0A7	3.3±20%	1M / 60mV	700	0.24	0.20
CPI201210UF-4R7M-0A7	4.7±20%	1M / 60mV	700	0.28	0.23

- Rated current: based on temperature rise test
- In compliance with EIA 595

Typical Inductance v.s. Frequency Curve



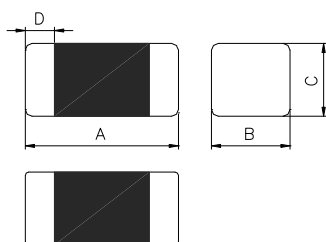
1. Features

- 2.0x1.6 mm and 1 mm in height (very compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class.
- High speed mounting: Using SMT moulder makes less than a second mounting possible.
- Excellent mounting strength by SMD chip making.
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
Completely lead-free product and support lead-free solder.



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2. Dimensions



Chip Size				
Series	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

CPI **201610** **U** **F** - **1R0** **M** - **1A3**
 A B C D E F G

A: Series
 B: Dimension
 C: Category Code
 D: Material
 E: Inductance
 F: Inductance Tolerance
 G: Rated Current

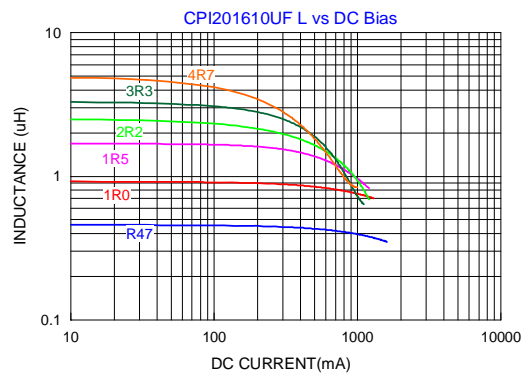
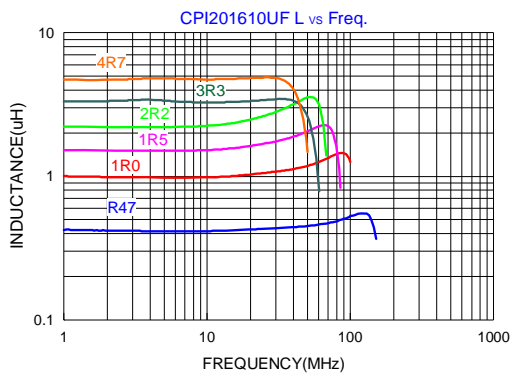
Lead Free Material
 1R0=1.0uH
 M=±20%
 1A3=1300mA

4. Specification

Tai-Tech Part Number	Inductance(uH)	Test Frequency (Hz)	Rated Current (mA) max.	DCR(Ω)	
				max.	typ.
CPI201610UF-R47M-1A6	0.47±20%	1M / 60mV	1600	0.075	0.06
CPI201610UF-1R0M-1A3	1.0±20%	1M / 60mV	1300	0.12	0.09
CPI201610UF-1R5M-1A2	1.5±20%	1M / 60mV	1200	0.13	0.10
CPI201610UF-2R2M-1A2	2.2±20%	1M / 60mV	1200	0.14	0.11
CPI201610UF-3R3M-1A1	3.3±20%	1M / 60mV	1100	0.16	0.13
CPI201610UF-4R7M-0A9	4.7±20%	1M / 60mV	900	0.20	0.16

- Rated current: based on temperature rise test
- In compliance with EIA 595

Typical Inductance v.s. Frequency Curve



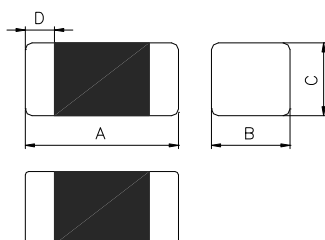
1. Features

- 2.5x2.0 mm and 1 mm in height (very compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class.
- High speed mounting: Using SMT mounter makes less than a second mounting possible.
- Excellent mounting strength by SMD chip making.
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
Completely lead-free product and support lead-free solder.



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2. Dimensions



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

3. Part Numbering

CPI **252010** **U** **F** - **2R2** **M** - **1A3**

A B C D E F G

A: Series

B: Dimension

C: Category Code

D: Material

E: Inductance

F: Inductance Tolerance

G: Rated Current

Lead Free Material

2R2=2.2uH

M=±20%

1A3=1300mA

4. Specification

Tai-Tech Part Number	Inductance(uH)	Test Frequency (Hz)	Rated Current (mA) max.	DCR (Ω)	
				max.	typ.
CPI252010UF-R47M-1A8	0.47±20%	1M / 60mV	1800	0.05	0.04
CPI252010UF-1R0M-1A4	1.0±20%	1M / 60mV	1400	0.08	0.065
CPI252010UF-1R5M-1A3	1.5±20%	1M / 60mV	1300	0.09	0.075
CPI252010UF-2R2M-1A3	2.2±20%	1M / 60mV	1300	0.09	0.075
CPI252010UF-3R3M-1A2	3.3±20%	1M / 60mV	1200	0.12	0.09
CPI252010UF-4R7M-1A1	4.7±20%	1M / 60mV	1100	0.15	0.12

● Rated current: based on temperature rise test

● In compliance with EIA 595

Typical Inductance v.s. Frequency Curve

