

High Current Ferrite Chip Inductor (Lead Free)

CPI201610UV-SERIES

1. Features

AEC-Q200



1.2.0x1.6 mm and 1 mm in height (very compact size): CAE and fine printing technology made this compact size possible

2. Stable minimum DC resistance in the class.

3. High speed mounting: Using SMT mounter makes less than a second mounting possible.

4. Excellent mounting strength by SMD chip making.

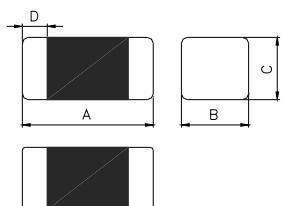
5. Reduced noise over 2/3 of coil inductor by optimal design of CAD Completely lead-free product and support lead-free solder.

6. Operating Temperature: -55~+125°C (Including self-temperature rise).

7. 100% Lead(Pb)-Free & Halogen-Free and RoHS compliant.

8. AEC-Q200.

2. Dimensions



| Chip Size | | | | |
|-----------|---------|----------|----------|---------|
| Series | A(mm) | B(mm) | C(mm) | D(mm) |
| 201610 | 2.0±0.2 | 1.60±0.2 | 1.0 max. | 0.5±0.3 |

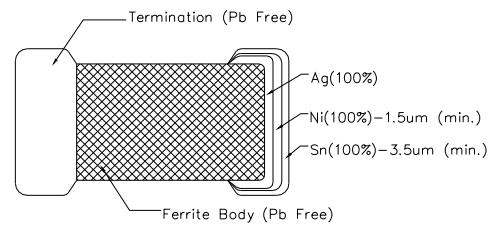
3. Part Numbering

CPI 201610 U V - 2R2 M - 1A2

A B C D E F G

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

V=Vehicle
2R2=2.2uH
M=±20%
1A2=1200mA
Anti-static packaging



4. Specification

| Tai-Tech Part Number | Inductance(uH) | Test Frequency (Hz) | Rated Current (mA) max. | DCR(Ω) | |
|-------------------------|----------------|------------------------|----------------------------|--------|------|
| | | | | max. | typ. |
| CPI201610UV-1R0M-1A3 | 1.00±20% | 1M / 60mV | 1300 | 0.12 | 0.09 |
| CPI201610UV-1R5M-1A2 | 1.50±20% | 1M / 60mV | 1200 | 0.13 | 0.10 |
| CPI201610UV-2R2M-1A2 | 2.20±20% | 1M / 60mV | 1200 | 0.14 | 0.11 |
| CPI201610UV-3R3M-1A1 | 3.30±20% | 1M / 60mV | 1100 | 0.16 | 0.13 |
| CPI201610UV-4R7M-0A9 | 4.70±20% | 1M / 60mV | 900 | 0.20 | 0.16 |

- Rated current: based on temperature rise test
- In compliance with EIA 595
- All test data referenced to 25°C ambient

Typical Inductance v.s. Frequency Curve