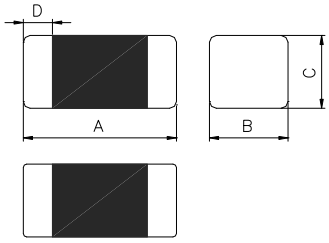
High Current Ferrite Chip Inductor (Lead Free)

CPI160809UF-Series

1. Features

1. 1.6x0.8 mm and 0.95 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~+105℃(Including self-temperature rise)

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	B	C	D		E	F		G

A: Series
B: Dimension
C: Category Code
D: Material — Lead Free Material
E: Inductance — 1R0=1.0uH
F: Inductance Tolerance — M=±20%
G: Rated Current

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	1.00±20%	1M / 60mV	750	0.20	0.17
CPI160809UF-2R2M-0A6	2.20±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