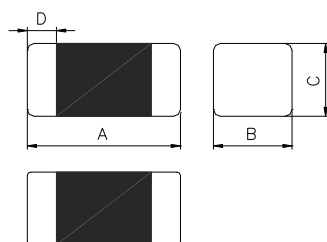


## 1. Features

- 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 mouter 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.
- 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  
 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	1.00±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**