



High Current Ferrite Chip Inductor (Lead Free)

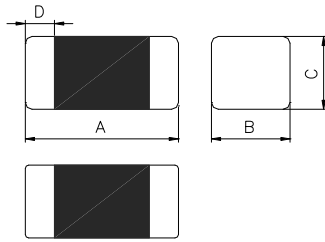
GPI160809UF-Series

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.
- 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

GPI **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

Part Number	Inductance(uH)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω)	
				max.	typ.
GPI160809UF-R33M-0A3	0.33±20%	1M / 60mV	350	0.35	0.27
GPI160809UF-R50M-0A9	0.50±20%	1M / 60mV	900	0.15	0.12
GPI160809UF-1R0M-0A7	1.00±20%	1M / 60mV	750	0.20	0.17
CPI160809UF-2R2M-0AG	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

