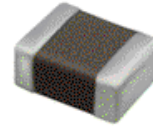


### CIGT160806UM1R0MNC (1608 / EIA 0603)

#### APPLICATION

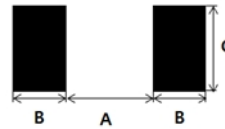
Mobile Phones, Tablet, LCD & AMOLED Display, Storage etc



#### FEATURES

- High Current Type
- Low DC resistance
- Magnetically shielded structure
- Free of all RoHS-regulated substances
- Monolithic structure for high reliability

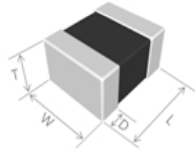
#### RECOMMENDED LAND PATTERN



Unit : mm

TYPE	1608
A	0.8
B	0.5
C	0.9

#### DIMENSION



TYPE	Dimension [mm]			
	L	W	T	D
1608	1.6±0.2	0.8±0.2	0.6 max	0.3±0.2

#### DESCRIPTION

Part no.	Size [inch/mm]	Thickness [mm] (max)	Inductance [uH]	Inductance tolerance (%)	DC Resistance [mΩ]		Rated DC Current * 1 [A]		Rated DC Current * 2 [A]	
					Max.	Typ.	Max.	Typ.	Max.	Typ.
CIGT160806UM1R0MNC	0603/1608	0.6	1.0	±20	300	250	1.8	2.2	0.9	1

※ Rated Current (A)<sup>\*1</sup>: DC current value when Inductance drops to 30% of nominal Inductance value (ONLY REFERENCE)

※ Rated Current (A)<sup>\*2</sup>: DC current value when the self-generation of heat rises to 40 °C (Reference ambient temperature:25 °C)

※ Operating temperature range: 40 to +125 °C (Including self-temperature rise)

※ Test equipment: Agilent :E4991A+16092A

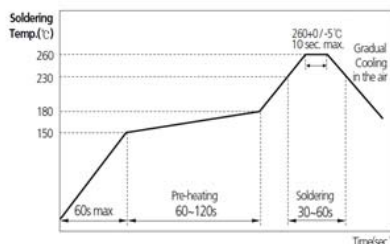
#### PRODUCT IDENTIFICATION

**CIG**    **T**    **1608**    **06**    **UM**    **1R0**    **M**    **N**    **C**  
**(1)**    **(2)**    **(3)**    **(4)**    **(5)**    **(6)**    **(7)**    **(8)**    **(9)**

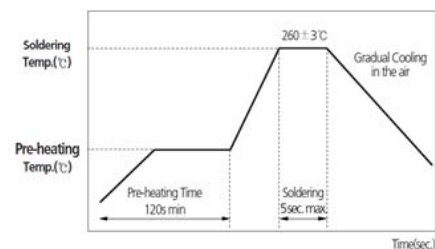
- (1) Power Inductor
- (2) Type (T: Thin Film Type)
- (3) Dimension (1608: 1.6mm × 0.8mm )
- (4) Thickness (06: 0.6mm)
- (5) Remark (Characterization Code)
- (6) Inductanc (1R0: 1.0 uH)
- (7) Tolerance (M:±20%)
- (8) Internal Code
- (9) Packaging (C:paper tape, E:embossed tape)

#### RECOMMENDED SOLDERING CONDITION

##### REFLOW SOLDERING



##### FLOW SOLDERING



#### PACKAGING

Packaging Style	Quantity(pcs/reel)
Card Board Taping	4000 pcs

## Data Sheet

### 1. Model : CIGT160806UM1R0MNC

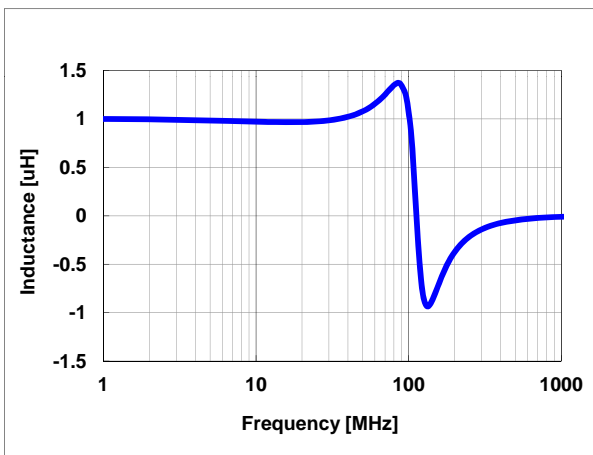
### 2. Description

Part no.	Size [inch/mm]	Thickness [mm] (max)	Inductance [uH]	Inductance tolerance (%)	DC Resistance [ $m\Omega$ ]		Rated DC Current * 1 [A]		Rated DC Current * 2 [A]	
					Max.	Typ.	Max.	Typ.	Max.	Typ.
CIGT160806UM1R0MNC	0603/1608	0.6	1.0	$\pm 20$	300	250	1.8	2.2	0.9	1

### 3. Characteristics data

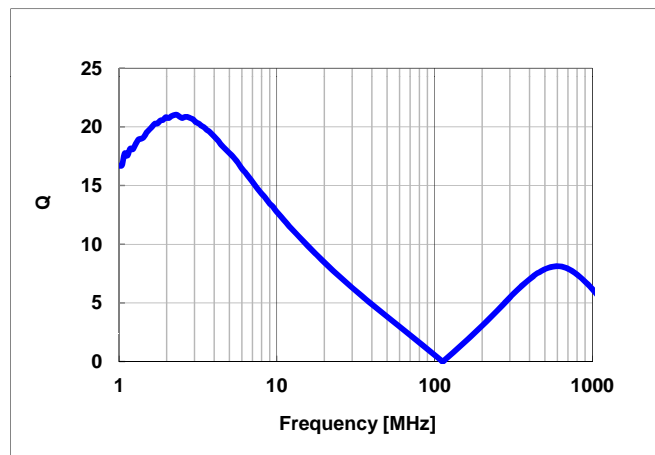
#### 1) Frequency characteristics (Ls)

Agilent E4294A +E4991A , 1MHz to 1,000MHz

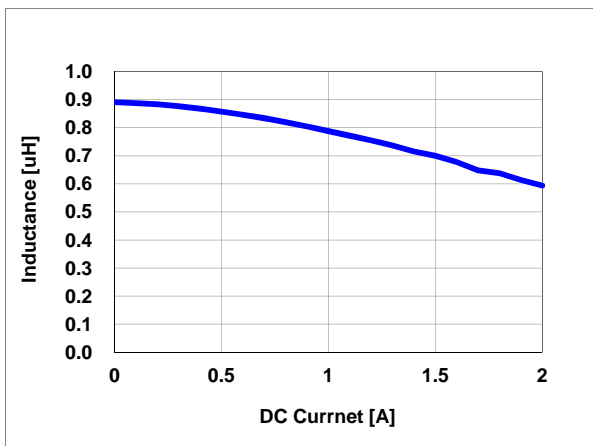


#### 2) Frequency characteristics (Q)

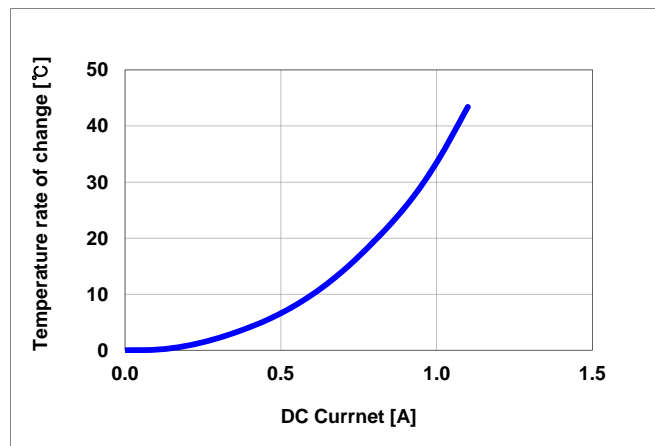
Agilent E4294A +E4991A , 1MHz to 1,000MHz



#### 3) DC Bias characteristics (Typ.)



#### 4) Temperature characteristics (Typ.)



Any data in this sheet are subject to change, modify or discontinue without notice  
The data sheets include the typical data for design reference only. If there is any question regarding the data sheets, please contact our sales personnel or application engineers