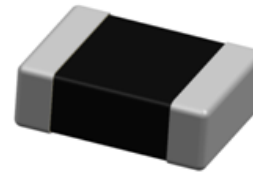


Metal Composite Type Power Inductor

CIGW252012GM6R8MNE(1008/2520)



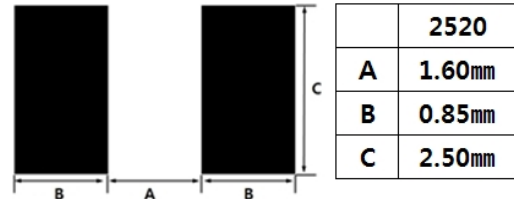
APPLICATION

Mobile Phones, LCD & AMOLED Display, HDD, SSD etc.

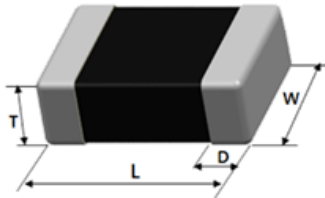
FEATURES

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

RECOMMENDED LAND PATTERN



DIMENSION



TYPE	Dimension [mm]			
	L	W	T	D
252012	2.5±0.2	2.0±0.2	1.2max	0.55±0.25

DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(mΩ)		Rated Current (A) ^{*1}		Rated Current (A) ^{*2}	
			Max.	Typ.	Max.	Typ.	Max.	Typ.
CIGW252012GM6R8MNE	1008/2520	6.8 ± 20%	300	250	1.5	1.7	1.3	1.5

※Rated Current (A)^{*1}: DC current value when Inductance drops by 30% of nominal Inductance value (ONLY REFERENCE)

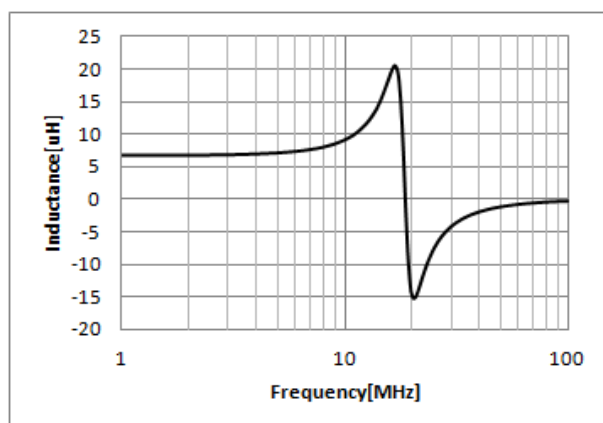
※Rated Current (A)^{*2}: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature:25℃)

※Operating temperature range: -40 to +85℃

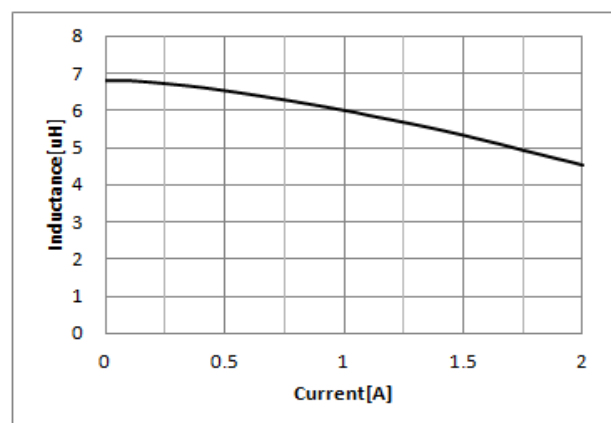
※Test equipment: Agilent :E4991A+16092A

CHARACTERISTIC DATA

1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)



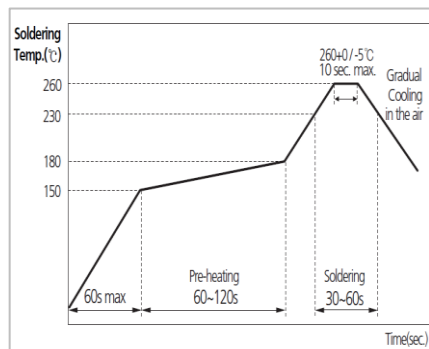
PRODUCT IDENTIFICATION

CIG W 2520 12 GM 6R8 M N E
(1) (2) (3) (4) (5) (6) (7) (8) (9)

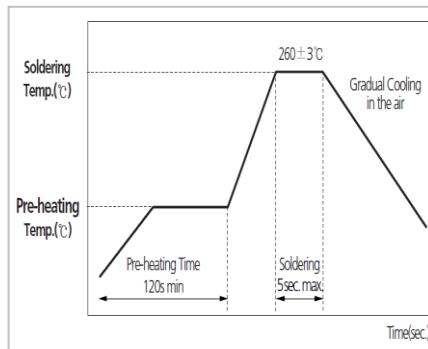
- | | |
|---|---------------------------------|
| (1) Power Inductor | (2) Type (W: Winding Type) |
| (3) Dimension (2520: 2.5mm x 2.0mm) | (4) Thickness (12: Max 1.2mm) |
| (5) Remark (GM: General Metal Composite) | (6) Inductance (6 R8: 6 . 8 uH) |
| (7) Inductance Tolerance Code (M: ±20%) | |
| (8) Initial Code | |
| (9) Packaging (C:paper tape, E:embossed tape) | |

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



FLOW SOLDERING



IRON SOLDERING

Temperature of Soldering Iron Tip	280 °C max.
Preheating Temperature	150 °C min.
Temperature Differential	$\Delta T \leq 130 ^\circ\text{C}$
Soldering Time	3sec max.
Wattage	50W max.

PACKAGING

Packaging Style	Quantity(pcs/reel)
Embossed Taping	2,500pcs



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.

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