

# Metal Composite Type Power Inductor

## CIGW252010GM1R0MNE (2520/ EIA 1008)



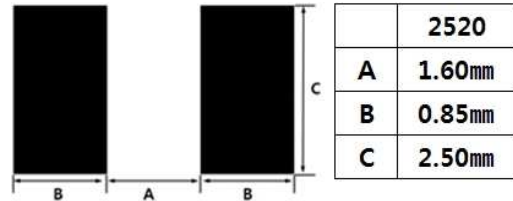
### APPLICATION

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

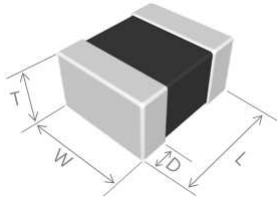
### FEATURES

- 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
22	2.5±0.2	2.0±0.2	0.9±0.1	0.55±0.25

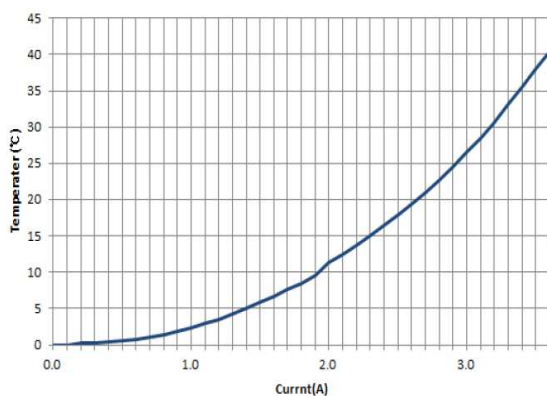
### DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(Ω)		Rated Current (A) <sup>*1</sup>		Rated Current (A) <sup>*2</sup>	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
CIGW252010GM1R0MNE	1008/2520	1.0 ±20 %	0.040	0.052	3.7	3.3	3.5	3.3

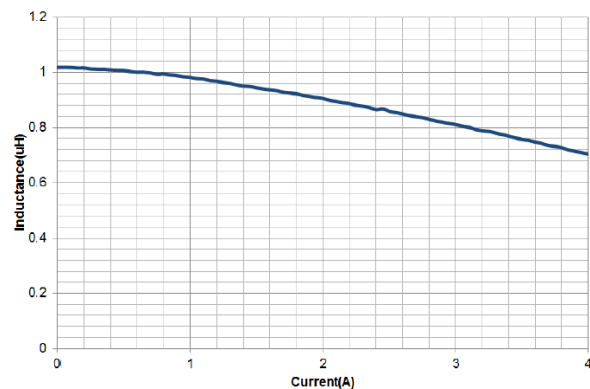
- ※Rated Current (A)<sup>\*1</sup>: DC current value when Inductance drops by 30% of nominal Inductance value (*ONLY REFERENCE*)
- ※Rated Current (A)<sup>\*2</sup>: DC current value when the self-generation of heat rises to 40°C (Reference ambient temperature:25°C)
- ※Operating temperature range: -40 to +125°C (Including self-temperature rise)
- ※Test equipment: Agilent :E4991A+16092A

### CHARACTERISTIC DATA

#### 1) Temperature characteristics (Typ.)



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



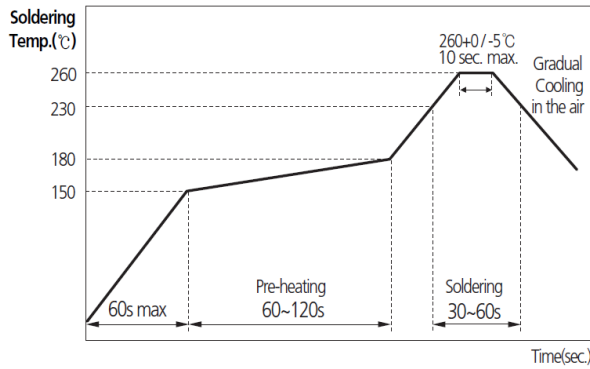
**PRODUCT IDENTIFICATION**

**CIG W 2520 10 GM 1R0 M N E**  
**(1) (2) (3) (4) (5) (6) (7) (8) (9)**

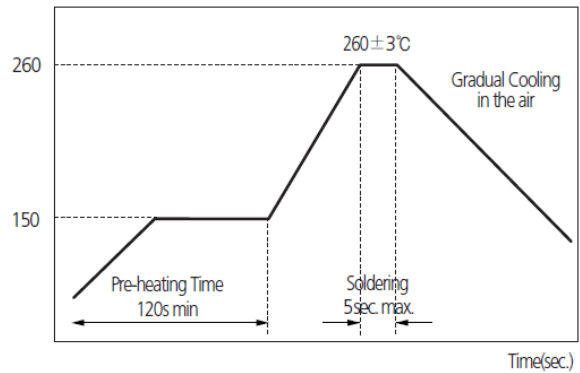
- (1) Power Inductor
- (2) Type (W: Winding Type)
- (3) Dimension (2520: 2.5mm x 2.0mm)
- (4) Thickness (10: Max 1.0mm)
- (5) Remark (GM: General Metal Composite)
- (6) Inductance (1R0: 1.0uH)
- (7) Tolerance (M: ±20%)
- (8) Initial Code
- (9) Packaging(C:paper tape, E:embossed tape)

**RECOMMENDED SOLDERING CONDITION**

**REFLOW SOLDERING**



**FLOW SOLDERING**



**PACKAGING**

Packaging Style	Quantity(pcs/reel)
Embossed Taping	3,000pcs



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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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