

Metal Composite Type Power Inductor

CIGW252012GM1R0MNE(1008/2520)

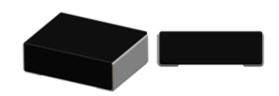
APPLICATION

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

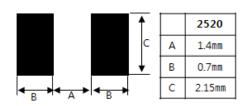
FEATURES

DIMENSION

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



RECOMMENDED LAND PATTERN



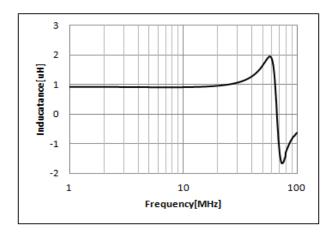
| | | TYPE | Dimension [mm] | | | |
|-----------------------|-------------|--------|----------------|---------|--------|-----------|
| T L D N N | | | L | W | т | D |
| | | 252012 | 2.5±0.2 | 2.0±0.2 | 1.2max | 0.55±0.25 |
| | Bottom View | | | I | I | 11 |
| DESCRIPTION | | | | | | |

| Part no. | Size | Inductance | DC Resistance(m Ω) | | Rated Current (A) *1 | | Rated Current $(A)^{*2}$ | |
|--------------------|-----------|------------|----------------------------|------|---------------------------|------|--------------------------|------|
| | (inch/mm) | (uH)@1MHz | Max. | Тур. | Max. | Тур. | Max. | Тур. |
| CIGW252012GM1R0MLE | 1008/2520 | 1.0 ± 20% | 46 | 37 | 4.0 | 4.4 | 3.4 | 3.7 |

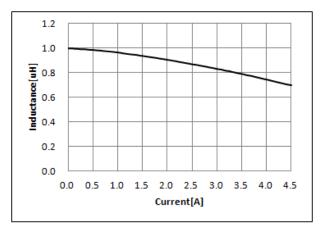
*Rated Current (A)*1: DC current value when Inductance drops by 30% of Initial Inductance value (ONLY REFERENCE) * Operating temperature range: -40 to +85°C

* Test equipment: Agilent : E4991A+16092A

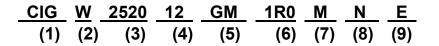
1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)







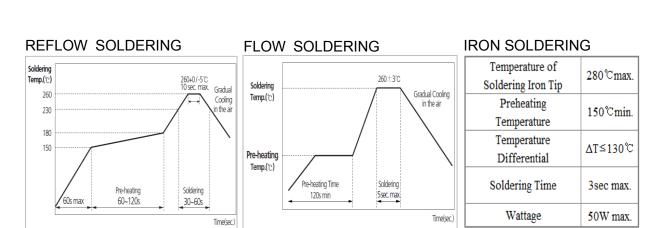
(2) Type (W: Winding Type)

(6) Inductance (1R0: 1.0uH)

(4) Thickness (12: Max 1.2mm)

- (1) Power Inductor
- (3) Dimension (2520: 2.5mm x 2.0mm)
- (5) Remark (GM: General Metal Composite)
- (7) Inductance Tolerance Code (M:±20%)
- (8) Initial Code
- (9) Packaging(C:paper tape, E:embossed tape)

RECOMMENDED SOLDERING CONDITION



PACKAGING

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

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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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Samsung Electro-Mechanics: CIGW252012GM1R0MNE