

# Multilayer Power Inductor

## CIG22L Series (2520/ EIA 1008)

### APPLICATION

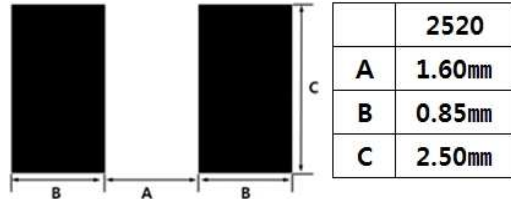
Mobile phones, DSC, DVC, PDA etc. for DC-DC Converter

### FEATURES

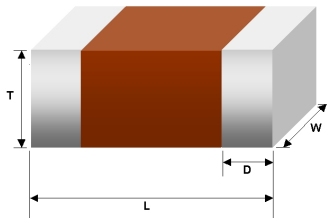
- Low DC resistance
- Magnetically shielded structure
- Free of all RoHS-regulated substances
- Monolithic structure for high reliability



### 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

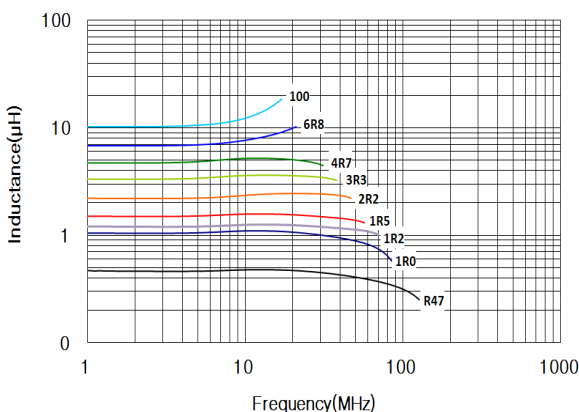
### DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(Ω)	Rated Current (A) Max.
CIG22LR47MNE	1008/2520	0.47 ±20 %	0.040 ±25 %	1.80
CIG22L1R0MNE	1008/2520	1.0 ±20 %	0.060 ±25 %	1.60
CIG22L1R2MNE	1008/2520	1.2 ±20 %	0.065 ±25 %	1.50
CIG22L1R5MNE	1008/2520	1.5 ±20 %	0.070 ±25 %	1.50
CIG22L2R2MNE	1008/2520	2.2 ±20 %	0.080 ±25 %	1.30
CIG22L3R3MNE	1008/2520	3.3 ±20 %	0.100 ±25 %	1.20
CIG22L4R7MNE	1008/2520	4.7 ±20 %	0.110 ±25 %	1.10
CIG22L6R8MNE	1008/2520	6.8 ±20 %	0.203 ±30 %	0.80
CIG22L100MNE	1008/2520	10.0 ±20 %	0.323 ±30 %	0.60

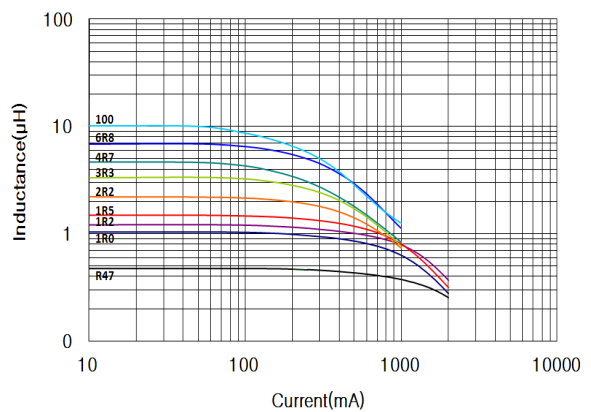
- ※ Rated Current (A): DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature:25℃)
- ※ Operating temperature range: -40 to +125℃ (Including self-temperature rise)
- ※ Test equipment: Agilent :E4991A+16092A

### CHARACTERISTIC DATA

1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)



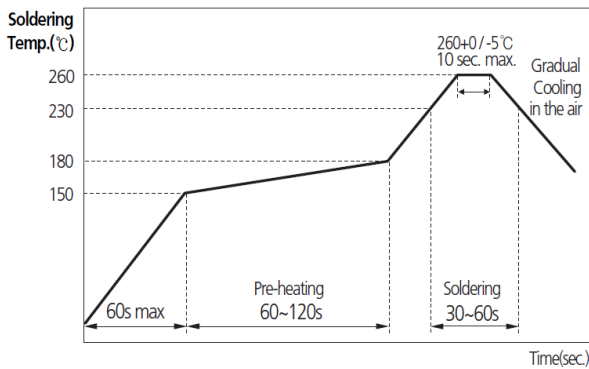
**PRODUCT IDENTIFICATION**

**CI G 22 L 1R0 M N E**  
**(1) (2) (3) (4) (5) (6) (7) (8)**

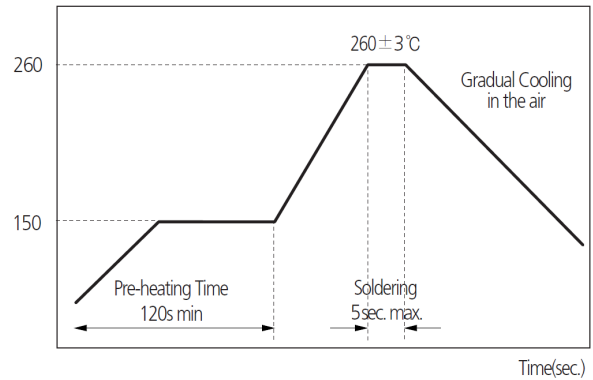
- (1) Chip Inductor
- (2) Power Inductor
- (3) Dimension
- (4) Product Series (L: Low Rdc)
- (5) Inductance (1R0:1.0uH)
- (6) Tolerance (M:±20%)
- (7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
- (8) Packaging(C:paper tape, E:embossed tape)

**RECOMMENDED SOLDERING CONDITION**

**REFLOW SOLDERING**



**FLOW SOLDERING**



**PACKAGING**

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

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[CGA2B2C0G1H2R2C](#) [CGA2B2C0G1H3R3C](#) [CGA2B2C0G1H680J](#) [CGA2B2C0G1H6R8D](#) [CGA2B2X8R1H221K](#) [CGA2B2X8R1H472K](#)  
[CGA3E1X7R1C474K](#)