

# Multilayer Power Inductor

## CIG22H Series (2520/ EIA 1008)



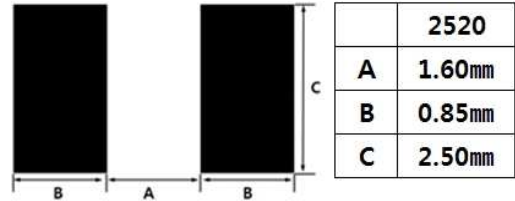
### APPLICATION

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

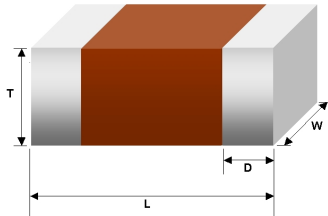
### FEATURES

- 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	1.1±0.1	0.55±0.25

### DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(Ω)	Rated Current (A) <sup>*1</sup> Typ.	Rated Current (A) <sup>*2</sup>	
					Max.	Typ.
CIG22H1R0MNE	1008/2520	1.0 ±20 %	0.080±25 %	3.3	1.5	2.0
CIG22H1R2MNE	1008/2520	1.2 ±20 %	0.094±20 %	2.8	1.5	1.9
CIG22H1R5MNE	1008/2520	1.5 ±20 %	0.104±20 %	2.4	1.5	1.6
CIG22H2R2MNE	1008/2520	2.2 ±20 %	0.116±20 %	1.8	1.2	1.6
CIG22H3R3MNE	1008/2520	3.3 ±20 %	0.133±20 %	1.0	1.0	1.5
CIG22H4R7MNE	1008/2520	4.7 ±20 %	0.233±20 %	0.95	0.8	1.0

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

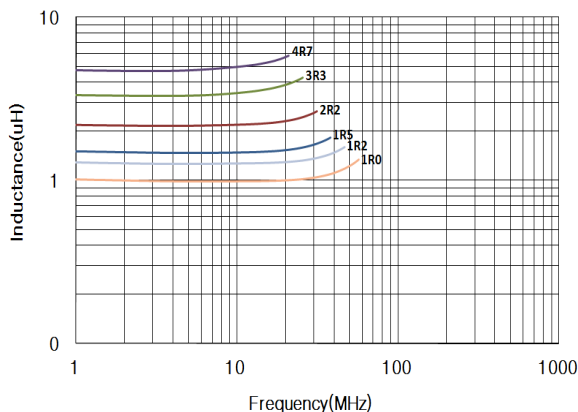
※Rated Current (A)<sup>\*2</sup>: DC current value when the self-generation of heat rises to 40°C (Reference ambient temperature:25°C)

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

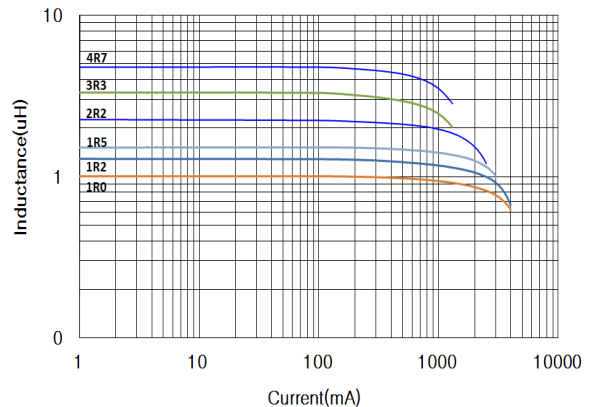
※Test equipment: Agilent :E4991A+16092A

### CHARACTERISTIC DATA

1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)



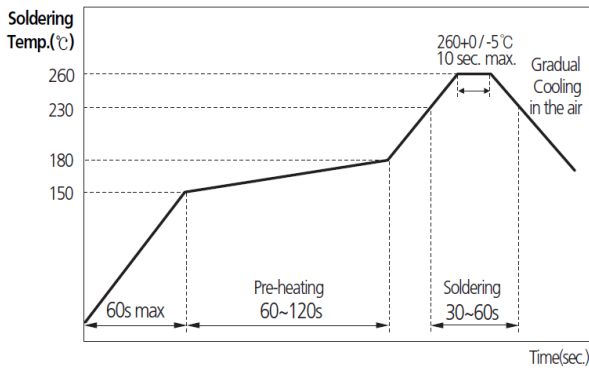
**PRODUCT IDENTIFICATION**

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

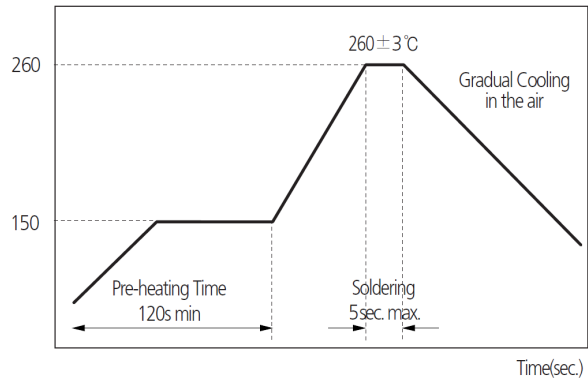
- (1) Chip Inductor
- (2) Power Inductor
- (3) Dimension
- (4) Product Series (H:High Current Type)
- (5) Inductance (1R0:1.0uH)
- (6) Tolerance (M:±20%)
- (7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
- (8) Packaging(C:paper tape, E:embossed tape)

**RECOMMENDED SOLDERING CONDITION**

**REFLOW SOLDERING**



**FLOW SOLDERING**



**PACKAGING**

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

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