

Multilayer Power Inductor

CIG22E Series (2520/ EIA 1008)



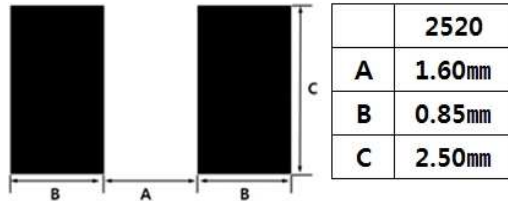
APPLICATION

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

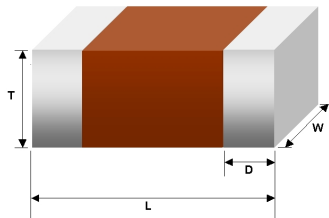
FEATURES

- 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	0.9±0.1	0.55±0.25

DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(Ω)	Rated Current (A) ^{*1} Typ.	Rated Current (A) ^{*2}	
					Max.	Typ.
CIG22ER47MNE	1008/2520	0.47 ±20 %	0.036 ±30%	3.20	3.20	3.70
CIG22E1R0MNE	1008/2520	1.0 ±20 %	0.048 ±30%	2.20	2.30	2.90
CIG22E1R5MNE	1008/2520	1.5 ±20 %	0.130 ±20%	2.40	1.50	1.70
CIG22E2R2MNE	1008/2520	2.2 ±20 %	0.150 ±20%	1.70	1.30	1.60
CIG22E3R3MNE	1008/2520	3.3 ±20 %	0.200 ±20%	1.10	1.10	1.30
CIG22E4R7MNE	1008/2520	4.7 ±20 %	0.265 ±20%	0.90	1.00	1.15

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

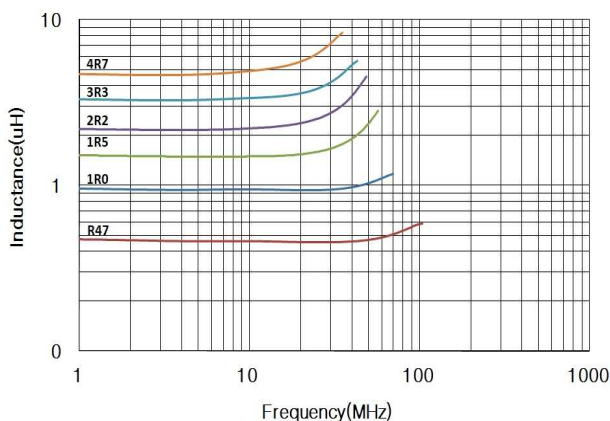
※ Rated Current (A)^{*2}: DC current value when the self-generation of heat rises to 40°C (Reference ambient temperature:25°C)

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

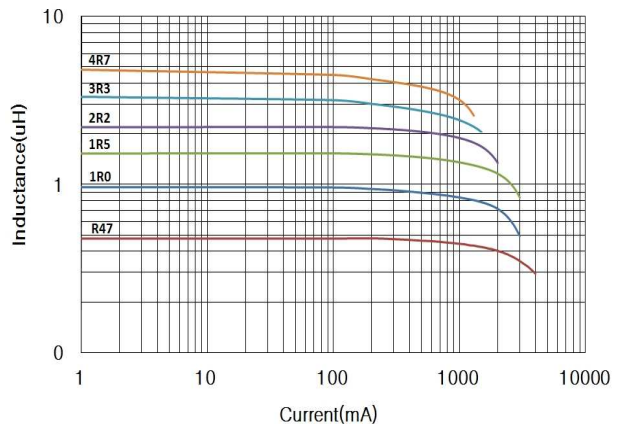
※ Test equipment: Agilent :E4991A+16092A

CHARACTERISTIC DATA

1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)



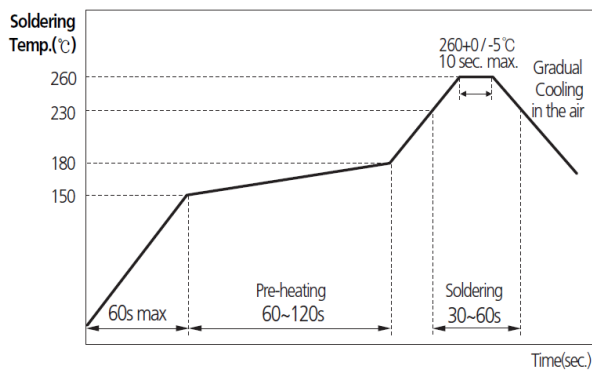
PRODUCT IDENTIFICATION

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

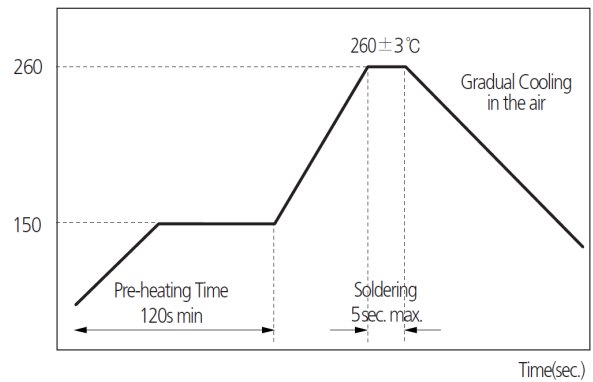
- (1) Chip Inductor
- (2) Power Inductor
- (3) Dimension
- (4) Product Series (E:High Current Type)
- (5) Inductance (1R0:1.0uH)
- (6) Tolerance (M:±20%)
- (7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
- (8) Packaging(C:paper tape, E:embossed tape)

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



FLOW SOLDERING



PACKAGING

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

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