

Multilayer Power Inductor

CIG21L Series (2012/ EIA 0805)



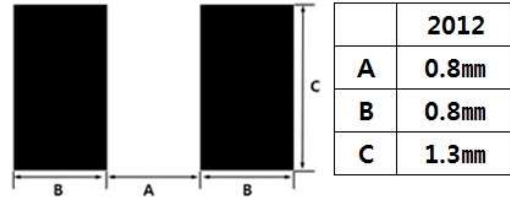
APPLICATION

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

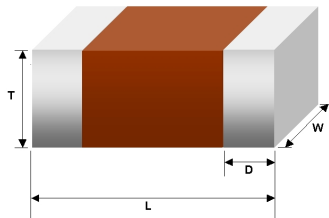
FEATURES

- 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
21	2.0±0.1	1.25±0.1	0.9±0.1	0.5+0.2 -0.3

DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(Ω)	Rated Current (A) Max.
CIG21LR47MNE	0805/2012	0.47 ±20 %	0.080 ±20 %	1.30
CIG21L1R0MNE	0805/2012	1.0 ±20 %	0.110 ±20 %	1.15
CIG21L1R2MNE	0805/2012	1.2 ±20 %	0.125 ±20 %	1.10
CIG21L1R5MNE	0805/2012	1.5 ±20 %	0.140 ±20 %	1.05
CIG21L2R2MNE	0805/2012	2.2 ±20 %	0.160 ±20 %	0.95
CIG21L3R3MNE	0805/2012	3.3 ±20 %	0.220 ±20 %	0.80
CIG21L4R7MNE	0805/2012	4.7 ±20 %	0.260 ±20 %	0.75

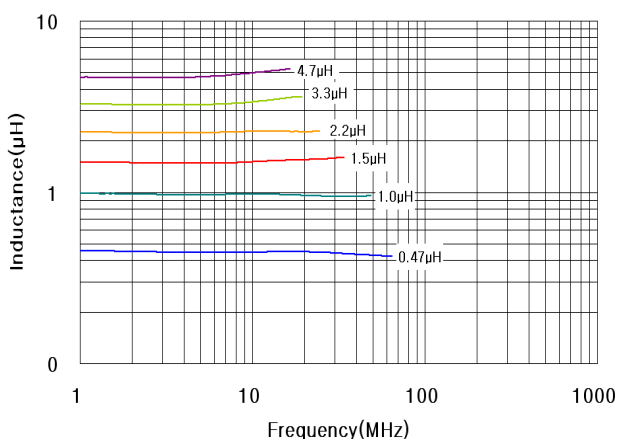
※Rated Current: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature:25℃)

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

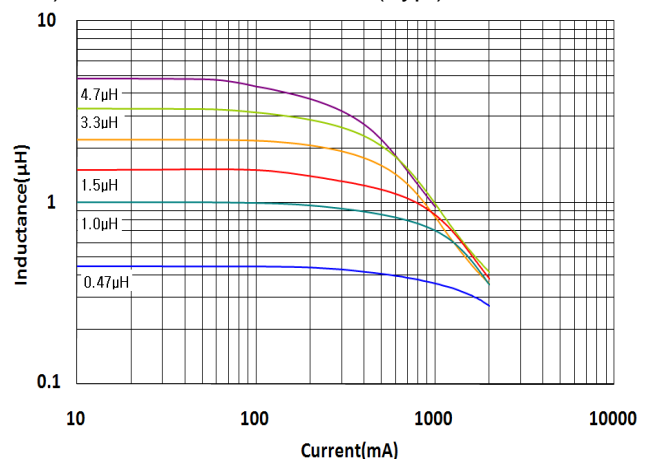
※Test equipment: Agilent :E4991A+16092A

CHARACTERISTIC DATA

1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)



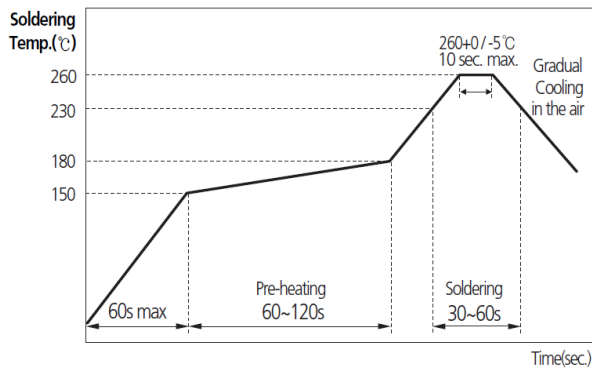
PRODUCT IDENTIFICATION

CI G 21 L 1R0 M N E
(1) (2) (3) (4) (5) (6) (7) (8)

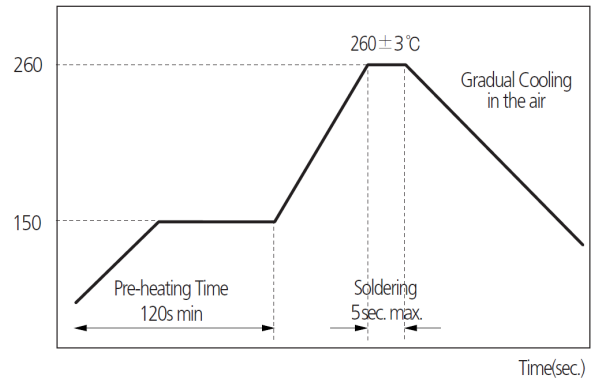
- (1) Chip Inductor
- (2) Power Inductor
- (3) Dimension
- (4) Product Series (L:Low RDC Type)
- (5) Inductance (R47:0.47uH, 1R0:1.0uH)
- (6) Tolerance (M:±20%)
- (7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
- (8) Packaging(C:paper tape, E:embossed tape)

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



FLOW SOLDERING



PACKAGING

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

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