SAMSUNG ELECTRO-MECHANICS

Ver. 201308

Multilayer Power Inductor

CIG22L Series (2520/ EIA 1008)

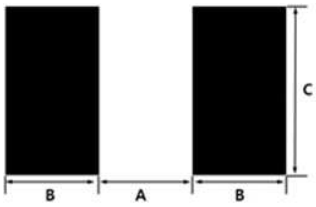
APPLICATION

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

FEATURES

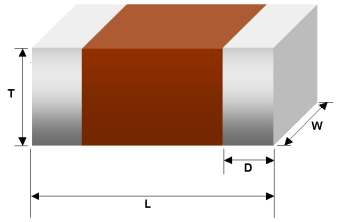
- Low DC resistance
- Magnetically shielded structure
- Free of all RoHS-regulated substances
- Monolithic structure for high reliability

RECOMMENDED LAND PATTERN



	2520
A	1.60㎜
B	0.85㎜
C	2.50㎜

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

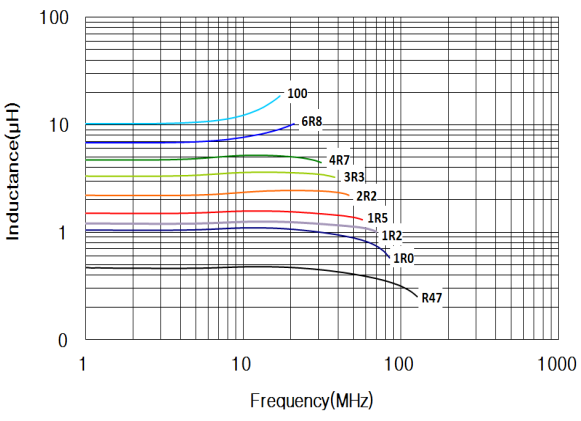
DESCRIPTION

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

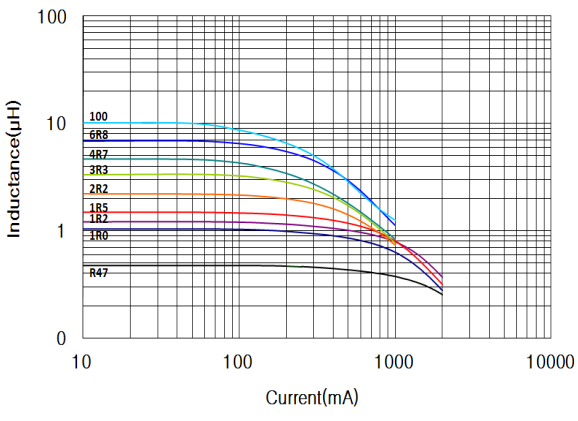
※Rated Current (A): DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature:25℃)
※Operating temperature range: –40 to +125℃ (Including self-temperature rise)
※Test equipment: Agilent :E4991A+16092A

CHARACTERISTIC DATA

1) Frequency characteristics (Typ.)



2) DC Bias characteristics (Typ.)



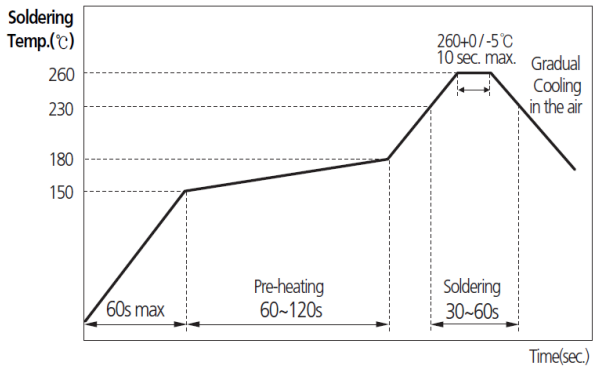
PRODUCT IDENTIFICATION

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

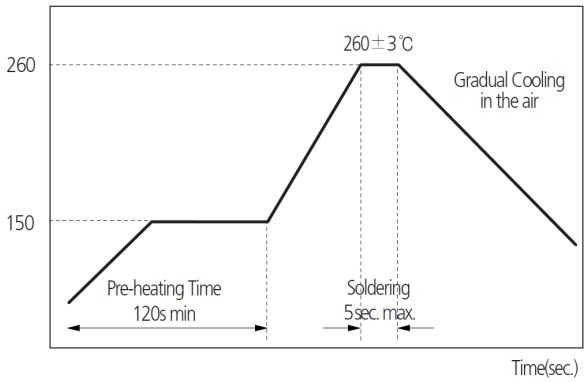
(1) Chip Inductor
(2) Power Inductor
(3) Dimension
(4) Product Series (L: Low Rdc)
(5) Inductance (1R0:1.0uH)
(6) Tolerance (M:±20%)
(7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
(8) Packaging(C:paper tape, E:embossed tape)

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



FLOW SOLDERING



PACKAGING

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