

Multilayer Power Inductor

CIG10W Series (1608/ EIA 0603)

APPLICATION

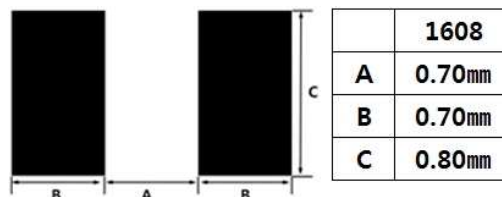
Mobile phones, DSC, DVC, PDA etc. for DC-DC Converter

FEATURES

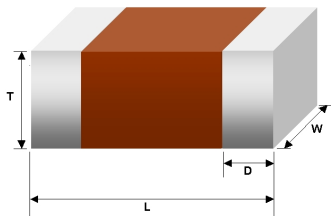
- The smallest multilayer power inductor(1.6mm×0.8mm)
- Lower Profile (0.8mm max)
- Low DC resistance
- Magnetically shielded structure
- Free of all RoHS-regulated substances



RECOMMENDED LAND PATTERN



DIMENSION



TYPE	Dimension [mm]			
	L	W	T	D
10	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

DESCRIPTION

Part no.	Size (inch/mm)	Inductance (uH)@1MHz	DC Resistance(Ω)	Rated Current (A) Max.
CIG10WR27MNC	0603/1608	0.27±25%	0.12 ±25 %	1.30
CIG10WR47MNC	0603/1608	0.47±20%	0.15 ±20 %	1.10
CIG10W1R0MNC	0603/1608	1.0±20%	0.20 ±20 %	0.95
CIG10W1R5MNC	0603/1608	1.5±20%	0.25 ±20 %	0.80
CIG10W2R2MNC	0603/1608	2.2±20%	0.30 ±20 %	0.75
CIG10W3R3MNC	0603/1608	3.3±20%	0.40 ±20 %	0.70
CIG10W4R7MNC	0603/1608	4.7±20%	0.50 ±20 %	0.62

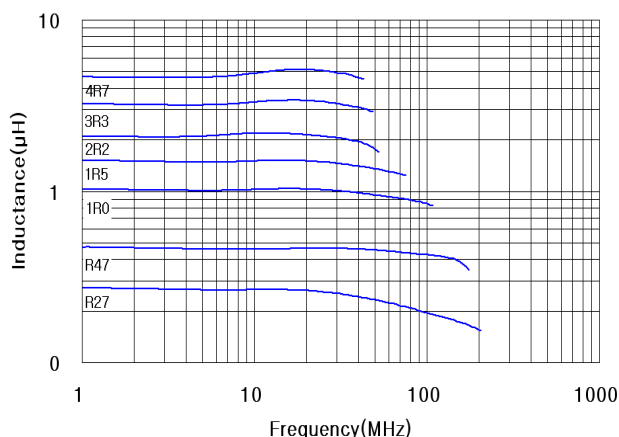
※Rated Current: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature:25℃)

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

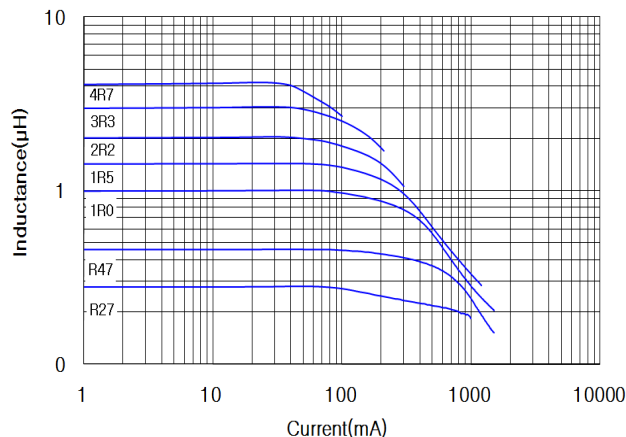
※Test equipment: Agilent :E4991A+16092A

CHARACTERISTIC DATA

1) Frequency characteristics(Typ.)



2) DC Bias characteristics (Typ.)



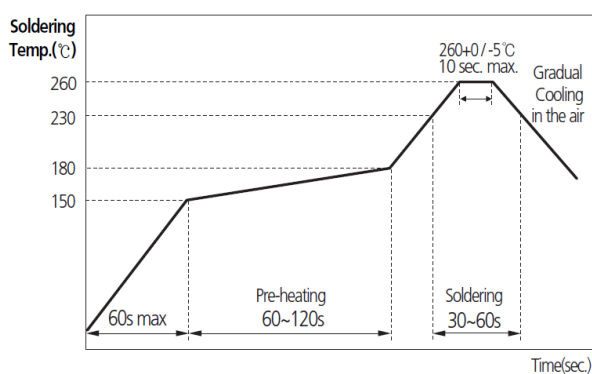
PRODUCT IDENTIFICATION

CI	G	10	W	2R2	M	N	C
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

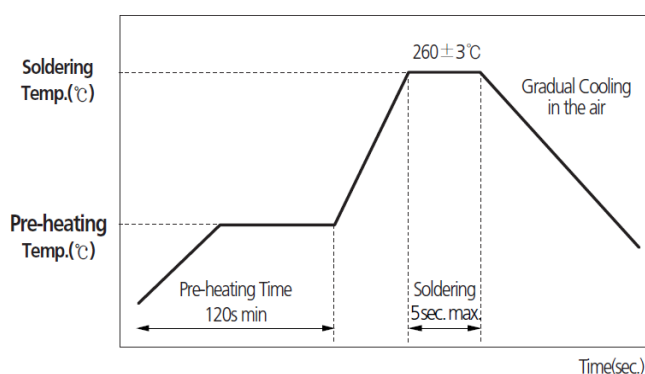
- | | |
|--|------------------------------------|
| (1) Chip Inductor | (2) Power Inductor |
| (3) Dimension | (4) Product Series (W:Normal Type) |
| (5) Inductance (R47:0.47uH, 2R2:2.2uH) | (6) Tolerance (M:±20%) |
| (7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard) | |
| (8) Packaging(C:paper tape, E:embossed tape) | |

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



FLOW SOLDERING



PACKAGING

Packaging Style	Quantity(pcs/reel)
Card Board Taping	4,000