

Multilayer Power Inductor

CIG10W Series (1608/ EIA 0603)



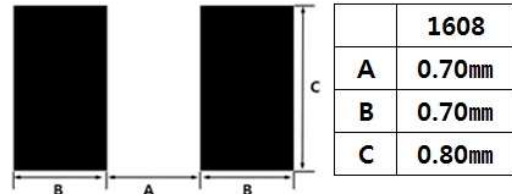
APPLICATION

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

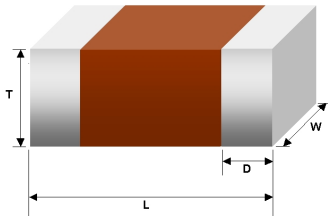
FEATURES

- The smallest multilayer power inductor(1.6mmx0.8mm)
- 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

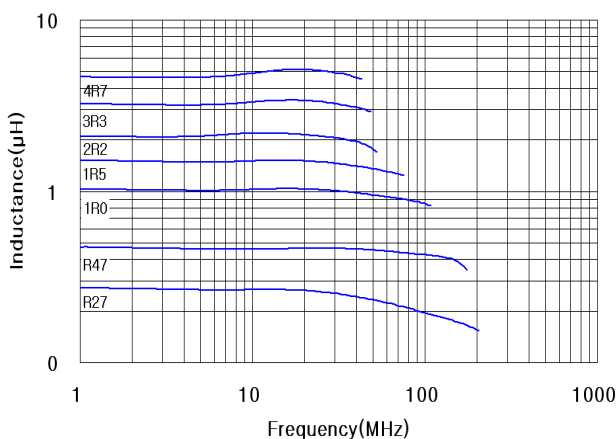
※Rated Current: DC current value when the self-generation of heat rises to 40°C (Reference ambient temperature:25°C)

※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.)

