

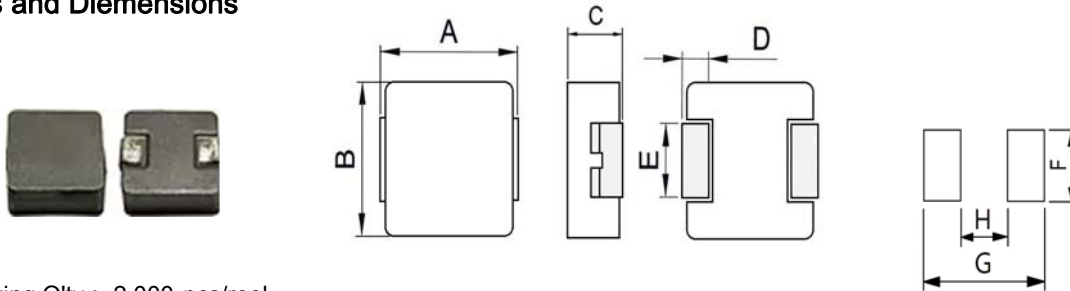
## Features

- Carbonyl powder inductor.
- High current, low DCR, high efficiency & high reliability.
- Very low acoustic noise and very low leakage flux noise.
- Lead-Free, Halogen-Free and RoHS compliant.

## Applications

- Notebook PC Power system, included IMVP-6 DC/DC converter.

## Shapes and Dimensions



Packing Q'ty : 2,000 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC6012	7.00 ± 0.3	6.60 ± 0.3	1.00 ± 0.2	1.80 ± 0.3	3.00 ± 0.3	3	7.7	2.5

## Electrical Characteristics

Part Number	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC6012-R22NC	0.22 ± 30%	6.5	7.5	11.00	19.00
SDMC6012-R33MC	0.33 ± 20%	9.0	10.0	9.50	16.00
SDMC6012-R47MC	0.47 ± 20%	13.0	17.0	8.50	12.00
SDMC6012-R68MC	0.68 ± 20%	17.0	19.0	7.00	9.00
SDMC6012-1R0MC	1.0 ± 20%	27.0	30.0	6.00	7.00
SDMC6012-1R2MC	1.2 ± 20%	31.0	36.0	5.00	6.80
SDMC6012-1R5MC	1.5 ± 20%	35.0	40.0	4.50	6.50
SDMC6012-2R2MC	2.2 ± 20%	53.0	61.0	4.00	5.00
SDMC6012-3R3MC	3.3 ± 20%	90.0	103.0	3.20	4.00
SDMC6012-4R7MC	4.7 ± 20%	130.0	150.0	2.50	3.80
SDMC6012-6R8MC	6.8 ± 20%	172.0	198.0	2.10	3.00
SDMC6012-100MC	10.0 ± 20%	280.0	290.0	1.80	2.50

## NOTES:

- All test data reference to 25°C ambient.
- Measuring frequency : L : 100KHz / 1.0V.
- Saturation Current (Isat) will cause L0 to drop 20% typical. (keep quickly).
- Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ t of 40°C (keep 1min.).