

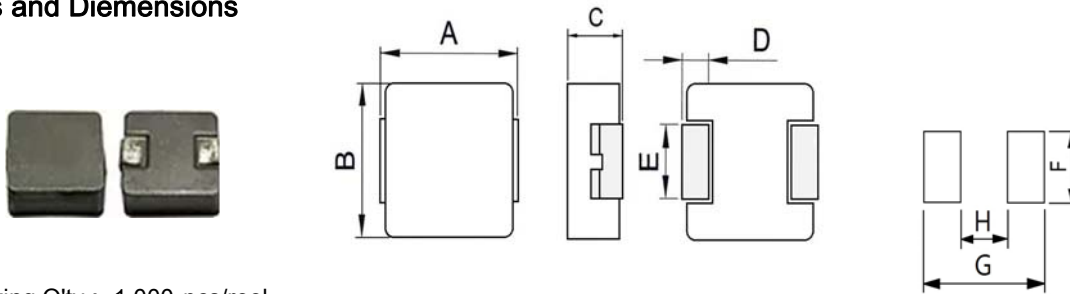
### Features

- 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 : 1,000 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC6030	7.30 ± 0.3	6.60 ± 0.3	2.80 ± 0.2	1.80 ± 0.3	3.00 ± 0.3	3.5	8.4	2.5

### Electrical Characteristics

Part No.	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC6030-R10NC	0.10 ± 20%	1.2	1.7	32.50	60.00
SDMC6030-R15NC	0.15 ± 20%	1.5	1.9	27.00	45.00
SDMC6030-R22NC	0.22 ± 20%	2.1	2.8	23.00	40.00
SDMC6030-R33MC	0.33 ± 20%	3.5	3.9	20.00	32.00
SDMC6030-R47MC	0.47 ± 20%	4.0	4.2	17.50	26.00
SDMC6030-R56MC	0.56 ± 20%	4.7	5.0	16.50	25.50
SDMC6030-R68MC	0.68 ± 20%	4.8	5.5	15.50	25.00
SDMC6030-R82MC	0.82 ± 20%	6.7	8.0	13.00	24.00
SDMC6030-1R0MC	1.0 ± 20%	8.3	10.0	11.00	22.00
SDMC6030-1R5MC	1.5 ± 20%	13.0	15.0	9.00	18.00
SDMC6030-1R8MC	1.8 ± 20%	14.0	17.0	8.50	16.00
SDMC6030-2R2MC	2.2 ± 20%	18.0	20.0	8.00	14.00
SDMC6030-2R5MC	2.5 ± 20%	20.0	22.0	7.00	13.00
SDMC6030-3R3MC	3.3 ± 20%	26.0	30.0	6.00	13.50
SDMC6030-4R7MC	4.7 ± 20%	37.0	40.0	5.50	10.00
SDMC6030-5R6MC	5.6 ± 20%	43.0	48.0	5.00	9.00
SDMC6030-6R8MC	6.8 ± 20%	54.0	60.0	4.50	8.00
SDMC6030-8R2MC	8.2 ± 20%	64.0	68.0	4.00	7.50
SDMC6030-100MC	10 ± 20%	75.0	85.0	3.50	6.00

#### 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.).