

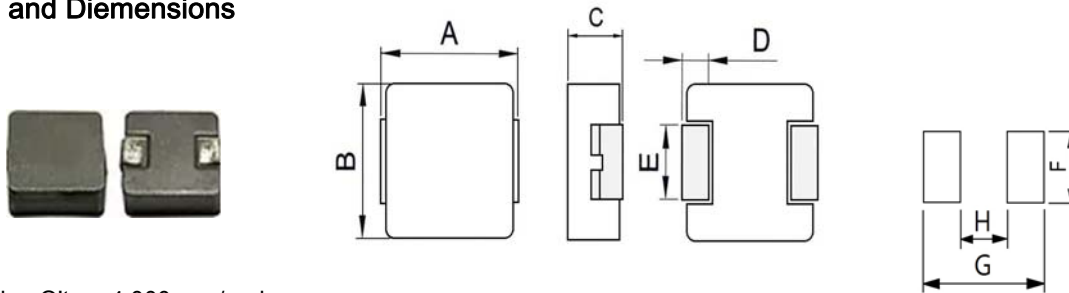
### Features

- 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 : 4,000 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC5012	5.70 ± 0.30	5.20 ± 0.20	1.00 ± 0.20	1.10 ± 0.30	2.50 ± 0.30	2.8	6.2	2.2

### Electrical Characteristics

Part No.	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC5012-R10NC	0.10 ± 20%	4.3	5.2	14.00	14.50
SDMC5012-R22NC	0.22 ± 20%	5.5	6.7	10.70	14.00
SDMC5012-R33MC	0.33 ± 20%	7.8	9.4	8.50	13.50
SDMC5012-R36MC	0.36 ± 20%	10.0	11.5	8.00	13.00
SDMC5012-R47MC	0.47 ± 20%	13.6	15.8	7.00	11.00
SDMC5012-R68MC	0.68 ± 20%	21.5	24.5	6.00	9.00
SDMC5012-1R0MC	1.0 ± 20%	26.0	30.0	5.00	6.00
SDMC5012-1R2MC'	1.2 ± 20%	33.0	40.0	4.50	5.50
SDMC5012-1R5MC	1.5 ± 20%	38.0	44.0	4.00	5.00
SDMC5012-2R2MC	2.2 ± 20%	65.0	75.0	3.50	4.00
SDMC5012-3R3MC	3.3 ± 20%	75.0	86.0	3.00	3.80
SDMC5012-4R7MC	4.7 ± 20%	100.0	115.0	2.50	3.20
SDMC5012-5R6MC	5.6 ± 20%	175.0	201.0	2.40	3.20
SDMC5012-6R8MC	6.8 ± 20%	193.0	222.0	2.00	3.00
SDMC5012-8R2MC	8.2 ± 20%	327.0	378.0	1.70	2.80
SDMC5012-100MC	10.0 ± 20%	335.0	385.0	1.50	1.80

#### 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.).