

## High Current Molding Power Inductor > Shielded > SDMC3012

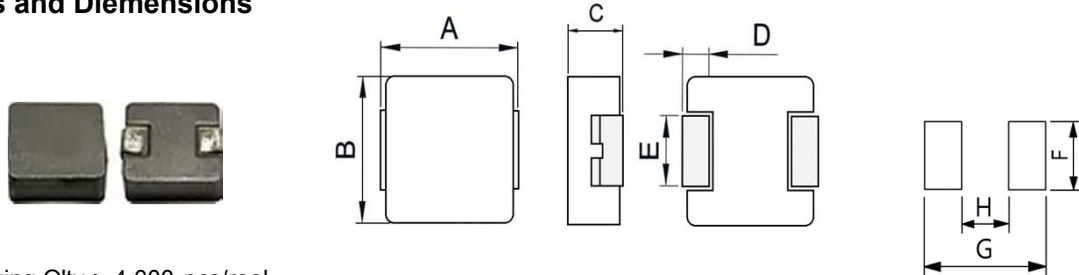
### Features

- 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		C	D	E	F	G	H
SDMC3012	3.50 ± 0.25	3.2 ± 0.25	1.0 ± 0.2	0.70 ± 0.2	1.2 ± 0.2	1.45	4.1	1.9

### Electrical Characteristics

Part No.	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC3012-R47MC	0.47 ± 20%	25	30	5.00	7.20
SDMC3012-R56MC	0.56 ± 20%	31	36	4.50	6.60
SDMC3012-R68MC	0.68 ± 20%	34	40	4.00	6.10
SDMC3012-R82MC	0.82 ± 20%	41	48	3.50	5.80
SDMC3012-1R0MC	1.0 ± 20%	50	60	3.30	5.50
SDMC3012-1R5MC	1.5 ± 20%	71	85	3.00	4.00
SDMC3012-2R2MC	2.2 ± 20%	98	115	2.70	3.40
SDMC3012-3R3MC	3.3 ± 20%	191	210	2.00	3.10
SDMC3012-4R7MC	4.7 ± 20%	266	293	1.60	2.80
SDMC3012-5R6MC	5.6 ± 20%	310	360	1.50	2.20
SDMC3012-6R8MC	6.8 ± 20%	360	400	1.40	2.00
SDMC3012-8R2MC	8.2 ± 20%	420	463	1.20	1.70
SDMC3012-100MC	10.0 ± 20%	498	550	1.00	1.40

#### NOTES:

- All test data reference to 25°C ambient.
- Measuring frequency : L : 100KHz / 1.0V.
- Saturation Current (Isat) will cause L0 to drop 30% typical. (keep quickly).
- Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ t of 40°C (keep 1min.).