

## High Current Molding Power Inductor > Shielded > SDMC6020

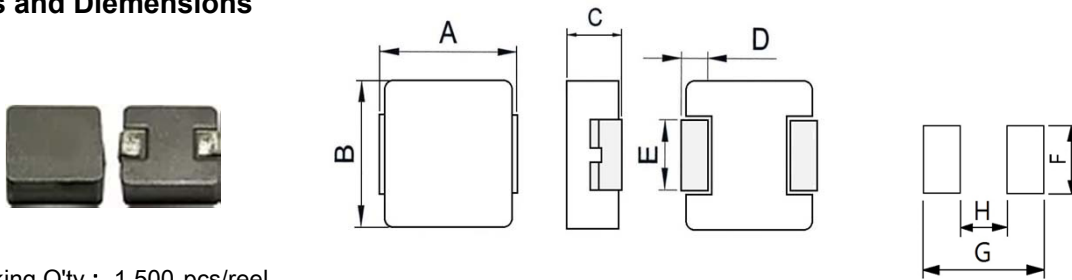
### Features

- 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 : 1,500 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC6020	7.00 ± 0.3	6.60 ± 0.3	1.80 ± 0.2	1.80 ± 0.3	3.00 ± 0.3	3.5	7.7	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.
SDMC6020-R10MC	0.10 ± 30%	2.0	2.4	21.0	40.0
SDNC6020-R20NC	0.20 ± 30%	2.5	3.0	18.0	35.0
SDMC6020-R33MC	0.33 ± 20%	4.5	5.0	14.0	25.0
SDMC6020-R47MC	0.47 ± 20%	7.1	8.3	11.7	20.0
SDMC6020-R68MC	0.68 ± 20%	8.3	10	10.5	16.0
SDMC6020-1R0MC	1.0 ± 20%	16.5	18	8.0	14.0
SDMC6020-1R5MC	1.5 ± 20%	23	27	7.0	12.0
SDMC6020-2R2MC	2.2 ± 20%	32	37	6.0	10.0
SDMC6020-3R3MC	3.3 ± 20%	43	48	5.0	8.0
SDMC6020-4R7MC	4.7 ± 20%	53	60	4.5	7.0
SDMC6020-5R6MC	5.6 ± 20%	59	68	4.0	6.0
SDMC6020-6R8MC	6.8 ± 20%	63	73	4.0	5.5
SDMC6020-8R2MC	8.2 ± 20%	101	116	3.2	5.0
SDMC6020-100MC	10.0 ± 20%	134	154	2.8	4.0
SDMC6020-220MC	22.0 ± 20%	236	280	1.5	2.5

#### 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.).