

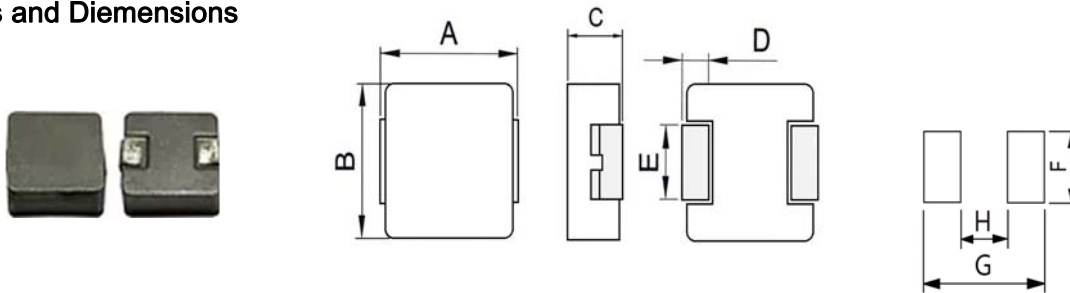
Features

- 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 : 3,000 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC3020	3.5 ± 0.2	3.2 ± 0.2	1.8 ± 0.2	0.7 ± 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.
SDMC3020-R10MC	0.10 ± 30%	6.6	9.0	10.50	14.00
SDMC3020-R47MC	0.47 ± 20%	19.7	23.0	7.00	9.00
SDMC3020-R56MC	0.56 ± 20%	31	36	6.60	4.50
SDMC3020-R68MC	0.68 ± 20%	26	29	5.50	7.00
SDMC3020-R82MC	0.82 ± 20%	41	48	5.80	3.50
SDMC3020-1R0MC	1.0 ± 20%	32	38	4.00	5.00
SDMC3020-1R5MC	1.5 ± 20%	71	85	4.00	3.00
SDMC3020-2R2MC	2.2 ± 20%	65	75	3.50	3.70
SDMC3020-3R3MC	3.3 ± 20%	125	145	3.00	3.50
SDMC3020-4R7MC	4.7 ± 20%	172	200	2.60	3.00
SDMC3020-5R6MC	5.6 ± 20%	205	238	2.20	2.60
SDMC3020-6R8MC	6.8 ± 20%	260	300	1.90	2.20
SDMC3020-8R2MC	8.2 ± 20%	420	463	1.70	1.20
SDMC3020-100MC	10.0 ± 20%	366	422	1.40	1.60

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.).