

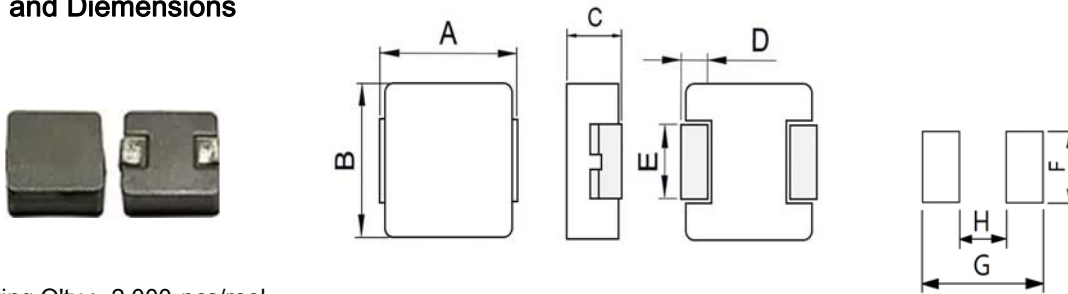
Features

- 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 : 2,000 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC5020	5.70 ± 0.30	5.20 ± 0.20	1.80 ± 0.20	1.10 ± 0.30	2.50 ± 0.30	2.8	6.2	2.2

Electrical Characteristics

Part Number	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC5020-R22MC	0.22 ± 20%	4.0	5.5	15.00	25.00
SDMC5020-R33MC	0.33 ± 20%	6.3	7.3	12.00	21.30
SDMC5020-R47MC	0.47 ± 20%	7.3	8.6	11.50	18.00
SDMC5020-R68MC	0.68 ± 20%	11.0	12.4	10.00	12.80
SDMC5020-1R0MC	1.0 ± 20%	17.5	20.0	7.00	13.70
SDMC5020-1R2MC	1.2 ± 20%	23.0	28.0	6.20	11.00
SDMC5020-1R5MC	1.5 ± 20%	26.5	30.5	5.50	9.80
SDMC5020-2R2MC	2.2 ± 20%	42.0	50.0	4.20	9.00
SDMC5020-3R3MC	3.3 ± 20%	66.0	76.0	3.30	7.30
SDMC5020-4R7MC	4.7 ± 20%	103.0	116.0	2.80	5.00
SDMC5020-5R6MC	5.6 ± 20%	112.0	122.0	2.50	4.00
SDMC5020-6R8MC	6.8 ± 20%	130.0	150.0	2.40	3.80
SDMC5020-8R2MC	8.2 ± 20%	148.0	171.0	2.30	3.50
SDMC5020-100MC	10.0 ± 20%	180.0	199.0	2.30	3.40
SDMC5020-150MC	15.0 ± 20%	240.0	270.0	1.90	2.80

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.).