

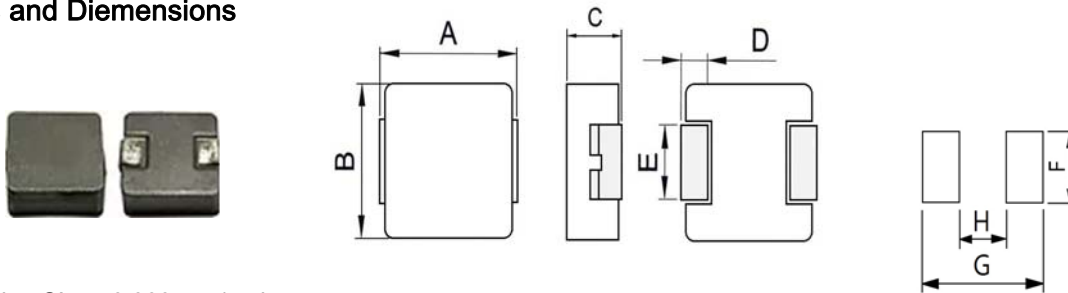
## Features

- 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
SDMC5018	5.70 ± 0.30	5.20 ± 0.20	1.60 ± 0.20	1.10 ± 0.3	2.5 ± 0.3	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.
SDMC5018-R33MC	0.33 ± 20%	7.5	8.6	11.00	15.00
SDMC5018-R47MC	0.47 ± 20%	9.8	11.3	10.00	14.00
SDMC5018-R68MC	0.68 ± 20%	12.4	14.3	9.00	13.00
SDMC5018-1R0MC	1.0 ± 20%	18.2	21.0	6.80	10.00
SDMC5018-1R5MC	1.5 ± 20%	26.0	30.0	6.00	9.00
SDMC5018-2R2MC	2.2 ± 20%	42.0	48.3	4.50	7.50
SDMC5018-3R3MC	3.3 ± 20%	60.0	69.0	3.50	5.00
SDMC5018-4R7MC	4.7 ± 20%	85.0	98.0	3.00	4.50
SDMC5018-5R6MC	5.6 ± 20%	110.0	127.0	2.50	4.00
SDMC5018-6R8MC	6.8 ± 20%	118.0	137.0	2.40	3.50
SDMC5018-8R2MC	8.2 ± 20%	165.0	165.0	2.30	3.00
SDMC5018-100MC	10.0 ± 20%	275.0	190.0	2.30	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.).