

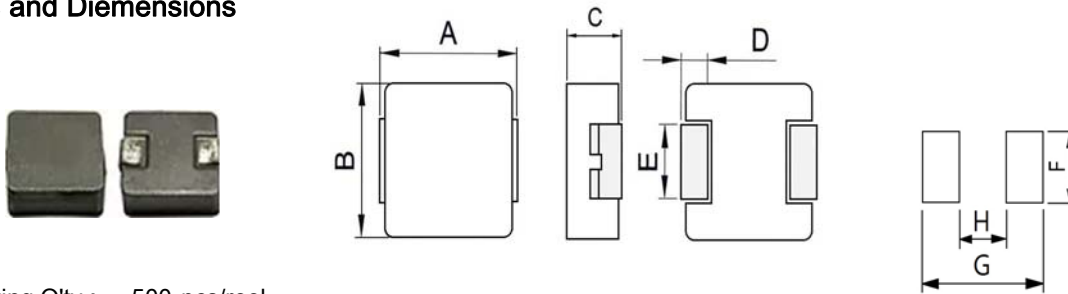
Features

- 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 : 500 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC12550	13.50 ± 0.5	12.50 ± 0.3	4.80 ± 0.2	2.30 ± 0.3	4.70 ± 0.3	5	14.20	8.00

Electrical Characteristics

Part No.	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC12550-R33MC	0.33 ± 20%	0.70	0.90	42.00	80.00
SDMC12550-R47MC	0.47 ± 20%	0.86	1.10	38.00	65.00
SDMC12550-R68MC	0.68 ± 20%	1.40	1.70	34.00	54.00
SDMC12550-1R0MC	1.00 ± 20%	1.85	2.50	29.00	50.00
SDMC12550-1R5MC	1.50 ± 20%	2.80	3.30	27.00	48.00
SDMC12550-1R8MC	1.80 ± 20%	4.00	4.90	21.00	48.00
SDMC12550-2R2MC	2.20 ± 20%	4.20	5.50	20.00	32.00
SDMC12550-3R3MC	3.30 ± 20%	6.80	9.20	15.00	32.00
SDMC12550-4R7MC	4.70 ± 20%	11.40	15.00	12.00	27.00
SDMC12550-6R8MC	6.80 ± 20%	14.50	18.50	11.00	21.00
SDMC12550-8R2MC	8.20 ± 20%	16.80	22.50	9.50	18.00
SDMC12550-100MC	10.0 ± 20%	21.40	25.50	9.00	16.00
SDMC12550-180MC	18.0 ± 20%	40.00	45.00	7.50	11.00

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.).