ORITAC

2022

Hign Current Molding Power Inductor > Shielded > SDMC10050

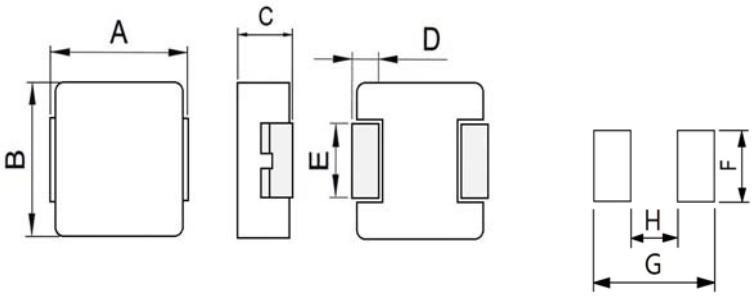
Features

- 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 Diemensions



Packing Q'ty : 500 pcs/reel

Type	A	B	C	D	E	F	G	H
SDMC10050	11.00 ± 0.5	10.00 ± 0.3	4.80 ± 0.2	2.30 ± 0.3	3.00 ± 0.3	3.5	13.6	5.4

Electrical Characteristics

Part No.	Inductance (uH)	D.C.R (mΩ) typ.	D.C.R (mΩ) max.	I rms (A) typ.	I sat (A) typ.
SDMC10050-R30MC	0.30 ± 20%	0.57	0.61	38.00	65.00
SDMC10050-1R0MC	1.00 ± 20%	2.80	3.50	22.00	30.00
SDMC10050-1R2MC	1.20 ± 20%	2.90	3.50	20.00	28.00
SDMC10050-1R5MC	1.50 ± 20%	3.50	4.10	19.00	27.00
SDMC10050-2R2MC	2.20 ± 20%	5.40	6.00	16.00	24.00
SDMC10050-3R3MC	3.30 ± 20%	9.00	10.40	14.00	22.00
SDMC10050-5R6MC	5.6 ± 20%	14.00	16.80	10.00	16.00
SDMC10050-100MC	10.0 ± 20%	25.00	29.00	8.00	13.50
SDMC10050-330MC	33.0 ± 20%	80.00	92.00	4.30	7.50
SDMC10050-470MC	47.0 ± 20%	125.00	145.00	3.80	6.50
SDMC10050-680MC	68.0 ± 20%	176.00	205.00	2.50	4.00

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.).