

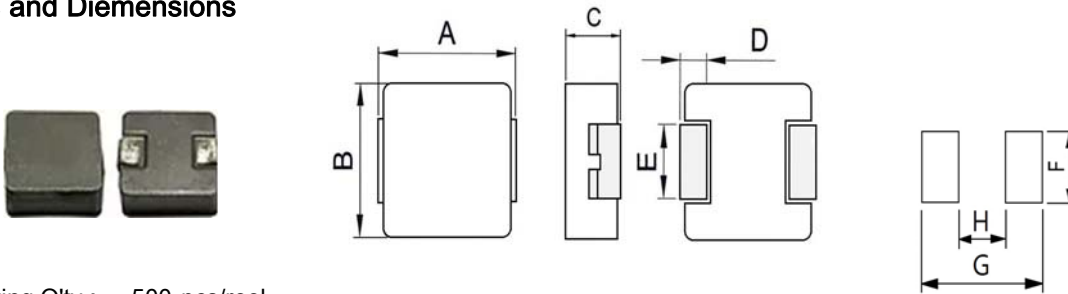
Features

- 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 |
|-----------|-------------|-------------|------------|------------|------------|-----|------|-----|
| SDMC10040 | 11.00 ± 0.5 | 10.00 ± 0.3 | 3.80 ± 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. |
|-----------------|-----------------|-----------------|-----------------|----------------|----------------|
| SDMC10040-R22NC | 0.22 ± 30% | 0.8 | 1.0 | 35.00 | 60.00 |
| SDMC10040-R39MC | 0.39 ± 20% | 3.0 | 1.3 | 30.00 | 60.00 |
| SDMC10040-R45MC | 0.45 ± 20% | 1.3 | 1.5 | 29.00 | 45.00 |
| SDMC10040-R56MC | 0.56 ± 20% | 10.8 | 1.8 | 25.00 | 40.00 |
| SDMC10040-1R0MC | 1.0 ± 20% | 3.0 | 3.3 | 18.00 | 36.00 |
| SDMC10040-1R5MC | 1.5 ± 20% | 4.0 | 4.6 | 16.00 | 33.00 |
| SDMC10040-2R2MC | 2.2 ± 20% | 6.5 | 7.0 | 12.00 | 27.00 |
| SDMC10040-3R3MC | 3.3 ± 20% | 10.8 | 11.8 | 11.00 | 20.00 |
| SDMC10040-4R7MC | 4.7 ± 20% | 15.0 | 15.5 | 10.00 | 17.00 |
| SDMC10040-5R6MC | 5.6 ± 20% | 17.0 | 19.3 | 9.00 | 14.00 |
| SDMC10040-6R8MC | 6.8 ± 20% | 17.5 | 23.3 | 8.50 | 13.50 |
| SDMC10040-8R2MC | 8.2 ± 20% | 20.0 | 22.5 | 8.00 | 12.50 |
| SDMC10040-100MC | 10 ± 20% | 27.0 | 30.0 | 7.50 | 12.00 |
| SDMC10040-220MC | 22 ± 20% | 64.0 | 74.0 | 5.00 | 7.00 |
| SDMC10040-330MC | 33 ± 20% | 92.0 | 112.0 | 3.50 | 5.00 |

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.).