

# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / SS TYPE

## FEATURES

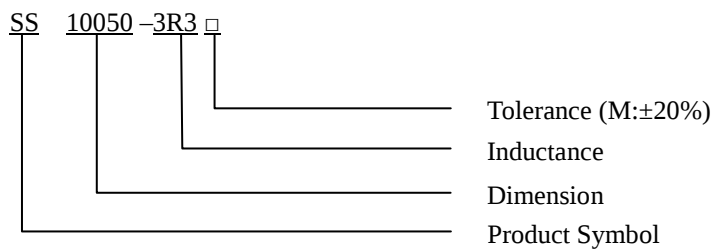
- ◆ High current, low loss of iron powder core.
- ◆ Low profile for machine placement.
- ◆ Minimize electromagnetic interference.
- ◆ Suppress common mode noise.
- ◆ Prevent EMI effect via precise impedance.
- ◆ Custom design available.



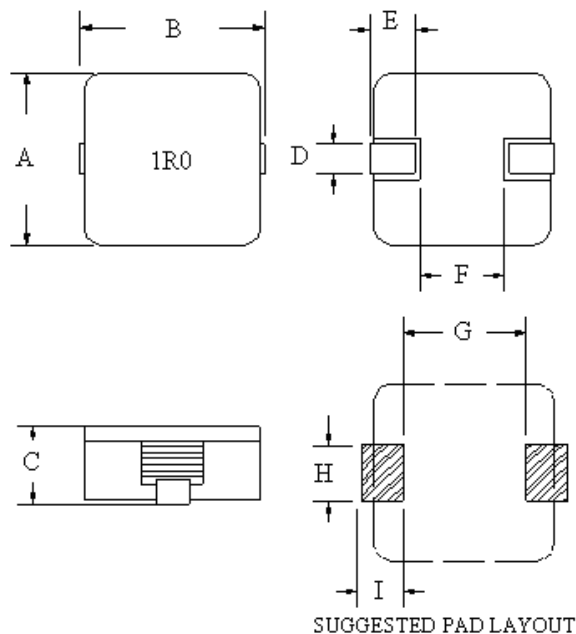
## APPLICATIONS

- ◆ Input – output filter application.
- ◆ Energy storage applications.
- ◆ Computer and portable power devices.
- ◆ DC/DC converters.

## ORDERING CODE



## DIMENSIONS UNIT: mm (inch)



|   |            |     |
|---|------------|-----|
| A | 10.2 ± 0.5 | m/m |
| B | 10.5 ± 0.5 | m/m |
| C | 5.0 (MAX)  | m/m |
| D | 2.0 ± 0.5  | m/m |
| E | 2.0 ± 0.5  | m/m |
| F | 6.5 (REF)  | m/m |
| G | 3.8 (REF)  | m/m |
| H | 4.0 (REF)  | m/m |
| I | 3.5 (REF)  | m/m |

CORE MASTER ENTERPRISE CO., LTD.

<http://www.coremaster.com.tw>



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### ELECTRICAL CHARACTERISTICS FOR SS10050

| Part No.     | Inductance<br>( $\mu$ H) | Test Frequency<br>(MHz) | RDC<br>(m $\Omega$ ) Max | IDC<br>(A) Max |
|--------------|--------------------------|-------------------------|--------------------------|----------------|
| SS10050-R16M | 0.16                     | 100KHz/0.1V             | 0.56                     | 58             |
| SS10050-R40M | 0.40                     | 100KHz/0.1V             | 0.74                     | 37             |
| SS10050-R72M | 0.72                     | 100KHz/0.1V             | 1.43                     | 35             |
| SS10050-1R2M | 1.20                     | 100KHz/0.1V             | 1.98                     | 25             |
| SS10050-1R8M | 1.80                     | 100KHz/0.1V             | 3.85                     | 18             |
| SS10050-2R4M | 2.40                     | 100KHz/0.1V             | 5.23                     | 17             |
| SS10050-3R3M | 3.30                     | 100KHz/0.1V             | 6.49                     | 15             |
| SS10050-4R2M | 4.20                     | 100KHz/0.1V             | 7.81                     | 14             |
| SS10050-5R5M | 5.50                     | 100KHz/0.1V             | 11.33                    | 12             |
| SS10050-6R5M | 6.50                     | 100KHz/0.1V             | 13.75                    | 10             |
| SS10050-7R8M | 7.80                     | 100KHz/0.1V             | 14.96                    | 9.5            |
| SS10050-100M | 10.0                     | 100KHz/0.1V             | 17.93                    | 8.5            |
| SS10050-160M | 16.0                     | 100KHz/0.1V             | 37.95                    | 6.5            |