

► SMD High Current Power Inductors ► SEDW Series

**FEATURES**

- Using the latest state of the art fine rectangular magnet wire construction.
- Super low resistance, ultra high rating current.



**APPLICATIONS**

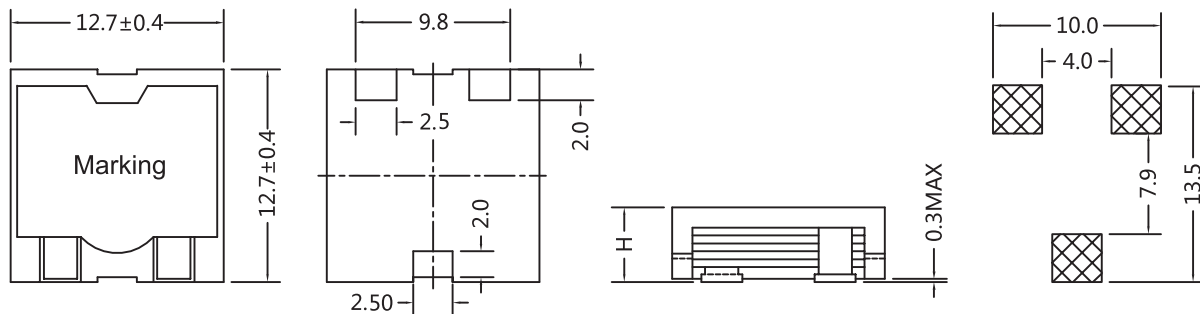
- Excellent for power line DC-DC conversion applications used in notebook computers and other handheld electronic equipment.

**PRODUCT IDENTIFICATION**

SEDW 1203 – 100 M – T  
a b c d e

- a : Series name
- b : Product dimensions
- c : Inductance Value (1R0:1.0uH; 100: 10uH; 101:100uH)
- d : Inductance Tolerance (K:10% ; M:20% ; N:30%)
- e : Packaging style (T: Taping; B: bulk)

**SHAPES AND DIMENSIONS** Unit: mm



| Series | Dimensions(mm) |           |           |           |
|--------|----------------|-----------|-----------|-----------|
|        | SEDW12035      | SEDW12050 | SEDW12060 | SEDW12070 |
| H(mm)  | 3.5±0.3        | 5.0±0.3   | 6.0±0.3   | 7.0±0.3   |

**ELECTRICAL CHARACTERISTICS**

| Part Number    | L(uH) | Test Freq.(KHz) | DCR max.(Ω) | Irated.(A) |
|----------------|-------|-----------------|-------------|------------|
| SEDW12035-R30M | 0.3   | 100             | 2.0         | 34.0       |
| SEDW12035-R70M | 0.7   | 100             | 4.5         | 26.0       |
| SEDW12035-1R3M | 1.3   | 100             | 6.5         | 23.0       |

Note:

**Irated:** The DC current at which the inductance decreases to 80% of its initial value or when  $\Delta t=40^{\circ}\text{C}$  whichever is lower( $T_a=20^{\circ}\text{C}$ )

## ELECTRICAL CHARACTERISTICS

| Part Number    | L(uH) | Test Freq.(KHz) | DCR max.(mΩ) | Irated.(A) |
|----------------|-------|-----------------|--------------|------------|
| SEDW12050-R60M | 0.6   | 100             | 2.0          | 33.0       |
| SEDW12050-1R1M | 1.1   | 100             | 3.0          | 26.0       |
| SEDW12050-1R7M | 1.7   | 100             | 4.5          | 21.0       |
| SEDW12050-2R5M | 2.5   | 100             | 6.0          | 18.0       |
| SEDW12050-4R7M | 4.7   | 100             | 12.0         | 12.0       |
| SEDW12050-5R6M | 5.6   | 100             | 15.0         | 10.0       |

| Part Number    | L(uH) | Test Freq.(KHz) | DCR max.(Ω) | Irated.(A) |
|----------------|-------|-----------------|-------------|------------|
| SEDW12060-1R5M | 1.5   | 100             | 3.5         | 25.0       |
| SEDW12060-2R1M | 2.1   | 100             | 4.5         | 20.0       |
| SEDW12060-2R8M | 2.8   | 100             | 6.0         | 18.0       |
| SEDW12060-4R7M | 4.7   | 100             | 9.0         | 13.0       |
| SEDW12060-5R6M | 5.6   | 100             | 15.0        | 11.5       |
| SEDW12060-7R8M | 7.8   | 100             | 20.0        | 9.0        |

| Part Number    | L(uH) | Test Freq.(KHz) | DCR max.(Ω) | Irated.(A) |
|----------------|-------|-----------------|-------------|------------|
| SEDW12070-2R0M | 2.0   | 100             | 4.0         | 21.0       |
| SEDW12070-2R7M | 2.7   | 100             | 5.5         | 18.0       |
| SEDW12070-4R5M | 4.5   | 100             | 8.0         | 13.0       |
| SEDW12070-6R5M | 6.5   | 100             | 12.0        | 9.5        |
| SEDW12070-8R8M | 8.8   | 100             | 18.0        | 8.0        |
| SEDW12070-120M | 12    | 100             | 25.0        | 7.0        |

Note:

**Irated:** The DC current at which the inductance decreases to 80% of its initial value or when  $\Delta t=40^{\circ}\text{C}$  whichever is lower( $T_a=20^{\circ}\text{C}$ )