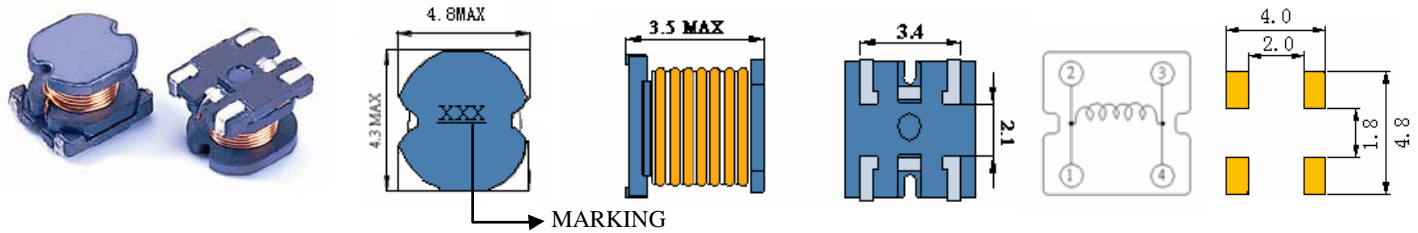


# SC43B

## SMD POWER INDUCTORS



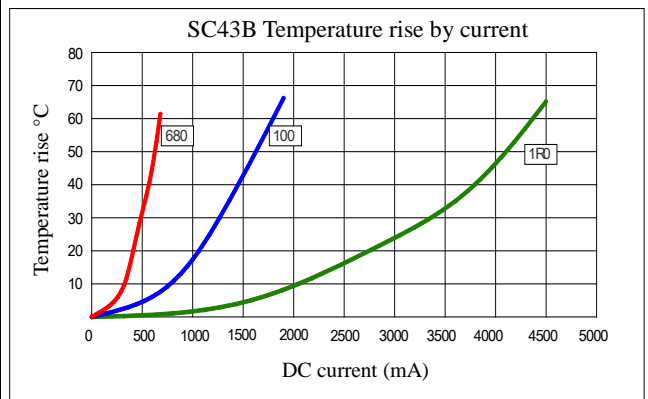
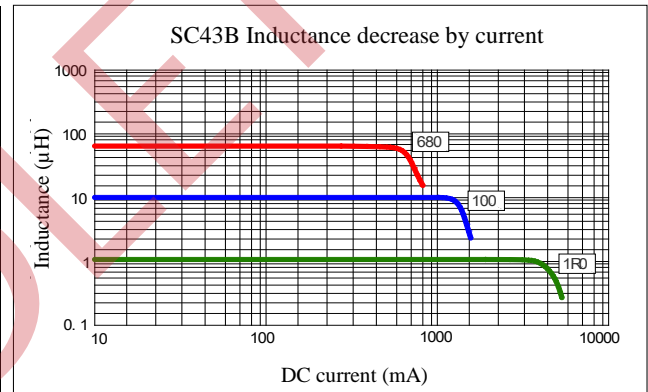
### • Features

1. Open frame construction
2. Excellent Power Density
3. Engineered to Provide High Efficiency

## ELECTRICAL CHARACTERISTICS



| Part Number | Inductance (uH)<br>(1) | Test Frequency | DC Resistance (Ω MAX)<br>(2) | Saturation Current (3)<br>(A) | Temperature Current (4)<br>(A) |
|-------------|------------------------|----------------|------------------------------|-------------------------------|--------------------------------|
| SC43B-1R0   | 1.0                    | 7.96MHZ        | 48m                          | 2.56                          | 3.10                           |
| SC43B-1R4   | 1.4                    | 7.96MHZ        | 56m                          | 2.20                          | 3.00                           |
| SC43B-1R8   | 1.8                    | 7.96MHZ        | 63m                          | 2.00                          | 2.80                           |
| SC43B-2R2   | 2.2                    | 7.96MHZ        | 71m                          | 1.75                          | 2.70                           |
| SC43B-2R7   | 2.7                    | 7.96MHZ        | 78m                          | 1.58                          | 2.60                           |
| SC43B-3R3   | 3.3                    | 7.96MHZ        | 86m                          | 1.44                          | 2.30                           |
| SC43B-3R9   | 3.9                    | 7.96MHZ        | 93m                          | 1.33                          | 2.00                           |
| SC43B-4R7   | 4.7                    | 7.96MHZ        | 108m                         | 1.22                          | 1.80                           |
| SC43B-5R6   | 5.6                    | 7.96MHZ        | 125m                         | 1.15                          | 1.60                           |
| SC43B-6R8   | 6.8                    | 7.96MHZ        | 131m                         | 1.00                          | 1.55                           |
| SC43B-8R2   | 8.2                    | 7.96MHZ        | 146m                         | 0.92                          | 1.45                           |
| SC43B-100   | 10                     | 2.52MHZ        | 182m                         | 0.84                          | 1.30                           |
| SC43B-120   | 12                     | 2.52MHZ        | 210m                         | 0.77                          | 1.23                           |
| SC43B-150   | 15                     | 2.52MHZ        | 235m                         | 0.69                          | 1.13                           |
| SC43B-180   | 18                     | 2.52MHZ        | 338m                         | 0.65                          | 1.00                           |
| SC43B-220   | 22                     | 2.52MHZ        | 378m                         | 0.58                          | 0.92                           |
| SC43B-270   | 27                     | 2.52MHZ        | 522m                         | 0.52                          | 0.83                           |
| SC43B-330   | 33                     | 2.52MHZ        | 540m                         | 0.48                          | 0.74                           |
| SC43B-390   | 39                     | 2.52MHZ        | 587m                         | 0.42                          | 0.66                           |
| SC43B-470   | 47                     | 2.52MHZ        | 844m                         | 0.39                          | 0.57                           |
| SC43B-560   | 56                     | 2.52MHZ        | 937m                         | 0.35                          | 0.50                           |
| SC43B-680   | 68                     | 2.52MHZ        | 1.117                        | 0.33                          | 0.45                           |



(1). Inductance tolerance for 1.0uH:  $\pm 30\%$ , for 1.4uH~68uH:  $\pm 20\%$ . Tested at 0.25V, 0ADC and 25°C

(2). DCR measured at 25°C.

(3). The DC current at which the inductance decreases by 10% from its initial value.

(4). The DC current that results in a 40°C temperature rise from 25°C ambient.

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