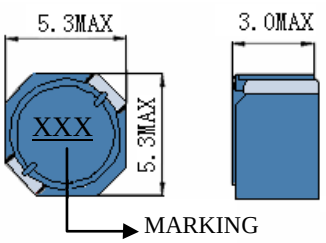
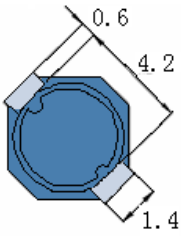
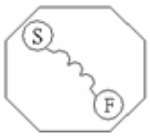
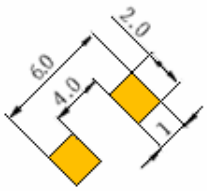
# SC53LC

## SMD POWER INDUCTORS




● Features

1. Magnetically shielded construction
2 Excellent Power Density
3 Engineered to Provide High Efficiency

## ELECTRICAL CHARACTERISTICS

| Part Number | Inductance (uH) (1) | Test Frequency | DC Resistance (Ω MAX) (2) | Saturation Current (3) (A) | Temperature Current (4) (A) |
|---|---|---|---|---|---|
| SC53LC-2R0 | 2.0 | 100KHZ | 38m | 2.92 | 3.60 |
| SC53LC-3R3 | 3.3 | 100KHZ | 51m | 2.36 | 3.42 |
| SC53LC-4R7 | 4.7 | 100KHZ | 60m | 1.87 | 2.80 |
| SC53LC-6R8 | 6.8 | 100KHZ | 76m | 1.51 | 2.27 |
| SC53LC-100 | 10 | 100KHZ | 105m | 1.33 | 2.00 |
| SC53LC-150 | 15 | 100KHZ | 126m | 1.05 | 1.60 |
| SC53LC-220 | 22 | 100KHZ | 190m | 0.86 | 1.28 |
| SC53LC-330 | 33 | 100KHZ | 288m | 0.72 | 1.09 |
| SC53LC-470 | 47 | 100KHZ | 415m | 0.62 | 0.87 |
| SC53LC-680 | 68 | 100KHZ | 545m | 0.51 | 0.73 |
| SC53LC-101 | 100 | 100KHZ | 860m | 0.43 | 0.58 |
| SC53LC-151 | 150 | 100KHZ | 1.24 | 0.21 | 0.46 |
| SC53LC-221 | 220 | 100KHZ | 2.04 | 0.18 | 0.39 |
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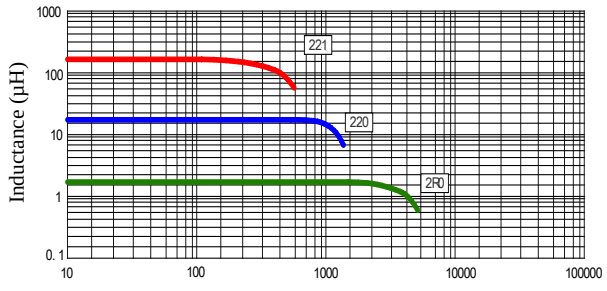
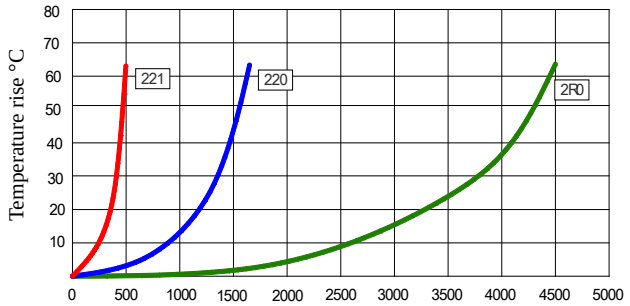
SC53LC Inductance decrease by current




SC53LC Temperature rise by current




(1). Inductance tolerance for 2.0uH~6.8uH: ±30%, for 10uH~220uH: ±20%. Tested at 0.25V, 0ADC and 25℃
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 30% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ambient.

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**Custom versions available upon request.**

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