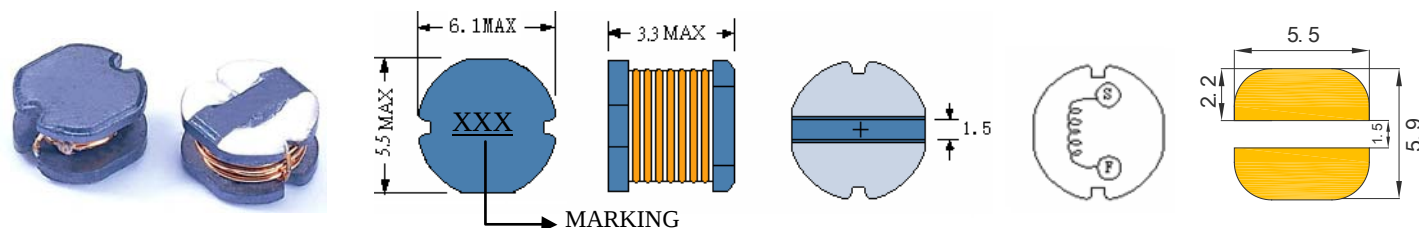


## SMD POWER INDUCTORS



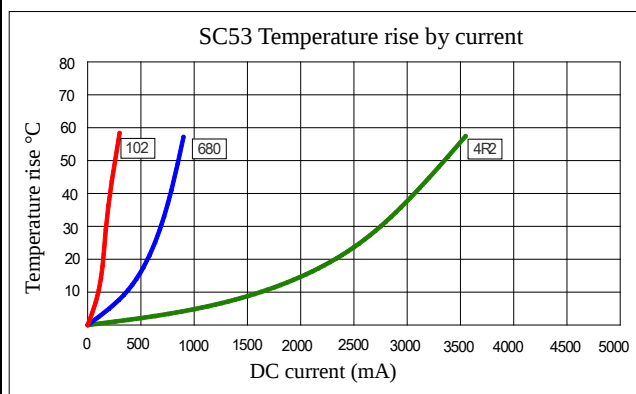
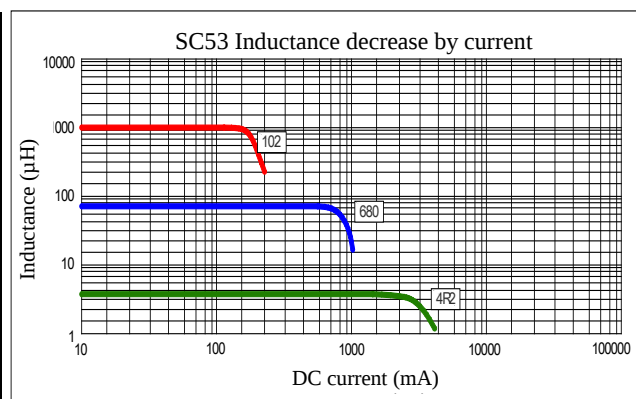
### • Features

1. Open frame construction.

## ELECTRICAL CHARACTERISTICS



| Part Number | Inductance (uH)<br>(1) | Test Frequency | DC Resistance (Ω MAX)<br>(2) | Saturation Current (A)<br>(3) | Temperature Current (A)<br>(4) |
|-------------|------------------------|----------------|------------------------------|-------------------------------|--------------------------------|
| SC53-4R2    | 4.2                    | 7.96MHZ        | 70m                          | 1.85                          | 2.60                           |
| SC53-6R2    | 6.2                    | 7.96MHZ        | 85m                          | 1.75                          | 2.20                           |
| SC53-100    | 10                     | 2.52MHZ        | 0.11                         | 1.30                          | 1.85                           |
| SC53-120    | 12                     | 2.52MHZ        | 0.13                         | 1.23                          | 1.60                           |
| SC53-150    | 15                     | 2.52MHZ        | 0.16                         | 1.10                          | 1.50                           |
| SC53-180    | 18                     | 2.52MHZ        | 0.18                         | 1.05                          | 1.40                           |
| SC53-220    | 22                     | 2.52MHZ        | 0.23                         | 0.93                          | 1.30                           |
| SC53-270    | 27                     | 2.52MHZ        | 0.25                         | 0.84                          | 1.20                           |
| SC53-330    | 33                     | 2.52MHZ        | 0.30                         | 0.76                          | 1.02                           |
| SC53-390    | 39                     | 2.52MHZ        | 0.35                         | 0.68                          | 0.95                           |
| SC53-470    | 47                     | 2.52MHZ        | 0.43                         | 0.63                          | 0.85                           |
| SC53-560    | 56                     | 2.52MHZ        | 0.54                         | 0.59                          | 0.78                           |
| SC53-680    | 68                     | 2.52MHZ        | 0.59                         | 0.53                          | 0.70                           |
| SC53-820    | 82                     | 2.52MHZ        | 0.72                         | 0.48                          | 0.62                           |
| SC53-101    | 100                    | 1KHZ           | 0.92                         | 0.45                          | 0.56                           |
| SC53-121    | 120                    | 1KHZ           | 1.01                         | 0.42                          | 0.52                           |
| SC53-151    | 150                    | 1KHZ           | 1.3                          | 0.38                          | 0.46                           |
| SC53-181    | 180                    | 1KHZ           | 1.6                          | 0.35                          | 0.40                           |
| SC53-221    | 220                    | 1KHZ           | 1.8                          | 0.32                          | 0.38                           |
| SC53-271    | 270                    | 1KHZ           | 2.4                          | 0.30                          | 0.35                           |
| SC53-331    | 330                    | 1KHZ           | 3.2                          | 0.28                          | 0.31                           |
| SC53-391    | 390                    | 1KHZ           | 3.5                          | 0.26                          | 0.29                           |
| SC53-471    | 470                    | 1KHZ           | 4.2                          | 0.20                          | 0.25                           |
| SC53-561    | 560                    | 1KHZ           | 4.9                          | 0.19                          | 0.22                           |
| SC53-681    | 680                    | 1KHZ           | 6.7                          | 0.18                          | 0.20                           |
| SC53-821    | 820                    | 1KHZ           | 7.8                          | 0.15                          | 0.18                           |
| SC53-102    | 1000                   | 1KHZ           | 8.8                          | 0.13                          | 0.17                           |



(1). Inductance tolerance  $\pm 20\%$  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.

[Click here for QUANTITY PER REEL & PACKING INFORMATION](#)

Custom versions available upon request.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Bel:](#)

[SC53-6R2](#) [SC53-121](#) [SC53-391](#) [SC53-561](#) [SC53-181](#) [SC53-271](#) [SC53-4R2](#) [SC53-560](#) [SC53-330](#) [SC53-390](#)  
[SC53-681](#) [SC53-100](#) [SC53-471](#) [SC53-180](#) [SC53-102](#) [SC53-331](#) [SC53-220](#) [SC53-270](#) [SC53-101](#) [SC53-680](#)  
[SC53-821](#) [SC53-150](#) [SC53-470](#) [SC53-151](#) [SC53-221](#) [SC53-820](#) [SC53-120](#)