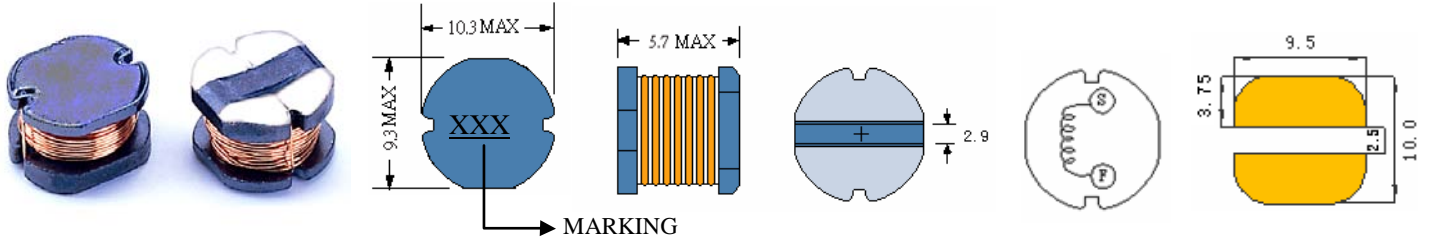


# SC105

## SMD POWER INDUCTORS



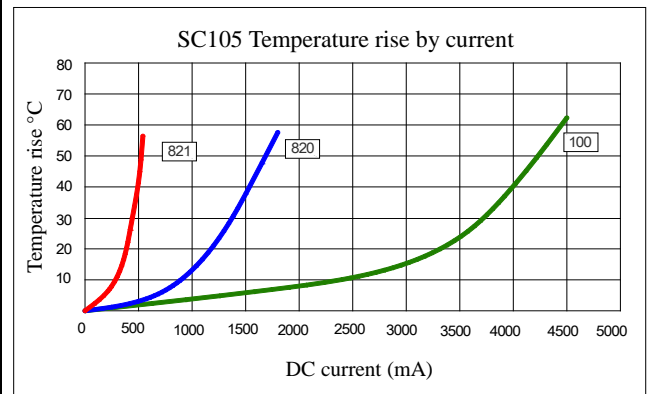
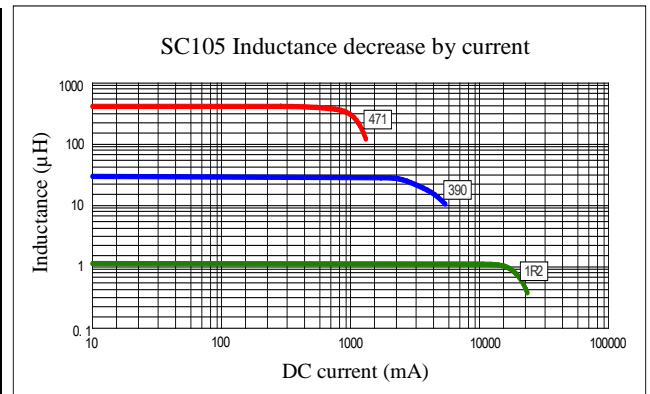
- Features

1. Open frame construction.

## ELECTRICAL CHARACTERISTICS



| Part Number | Inductance (uH)<br>(1) | Test Frequency | DC Resistance (Ω MAX)<br>(2) | Saturation Current <sup>(3)</sup><br>(A) | Temperature Current <sup>(4)</sup><br>(A) |
|-------------|------------------------|----------------|------------------------------|--|---|
| SC105-100   | 10                     | 2.52MHZ        | 0.06                         | 2.60                                     | 3.60                                      |
| SC105-120   | 12                     | 2.52MHZ        | 0.07                         | 2.45                                     | 3.30                                      |
| SC105-150   | 15                     | 2.52MHZ        | 0.08                         | 2.27                                     | 3.00                                      |
| SC105-180   | 18                     | 2.52MHZ        | 0.09                         | 2.15                                     | 2.60                                      |
| SC105-220   | 22                     | 2.52MHZ        | 0.10                         | 1.95                                     | 2.40                                      |
| SC105-270   | 27                     | 2.52MHZ        | 0.11                         | 1.76                                     | 2.30                                      |
| SC105-330   | 33                     | 2.52MHZ        | 0.12                         | 1.50                                     | 2.16                                      |
| SC105-390   | 39                     | 2.52MHZ        | 0.14                         | 1.37                                     | 2.00                                      |
| SC105-470   | 47                     | 2.52MHZ        | 0.17                         | 1.28                                     | 1.80                                      |
| SC105-560   | 56                     | 2.52MHZ        | 0.19                         | 1.17                                     | 1.60                                      |
| SC105-680   | 68                     | 2.52MHZ        | 0.22                         | 1.11                                     | 1.50                                      |
| SC105-820   | 82                     | 2.52MHZ        | 0.25                         | 1.00                                     | 1.40                                      |
| SC105-101   | 100                    | 1KHZ           | 0.35                         | 0.97                                     | 1.30                                      |
| SC105-121   | 120                    | 1KHZ           | 0.40                         | 0.89                                     | 1.20                                      |
| SC105-151   | 150                    | 1KHZ           | 0.47                         | 0.78                                     | 1.05                                      |
| SC105-181   | 180                    | 1KHZ           | 0.63                         | 0.72                                     | 1.00                                      |
| SC105-221   | 220                    | 1KHZ           | 0.73                         | 0.66                                     | 0.90                                      |
| SC105-271   | 270                    | 1KHZ           | 0.97                         | 0.57                                     | 0.78                                      |
| SC105-331   | 330                    | 1KHZ           | 1.15                         | 0.52                                     | 0.68                                      |
| SC105-391   | 390                    | 1KHZ           | 1.30                         | 0.48                                     | 0.56                                      |
| SC105-471   | 470                    | 1KHZ           | 1.48                         | 0.42                                     | 0.48                                      |
| SC105-561   | 560                    | 1KHZ           | 1.90                         | 0.33                                     | 0.46                                      |
| SC105-681   | 680                    | 1KHZ           | 2.25                         | 0.28                                     | 0.45                                      |
| SC105-821   | 820                    | 1KHZ           | 2.55                         | 0.24                                     | 0.43                                      |



- (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.

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