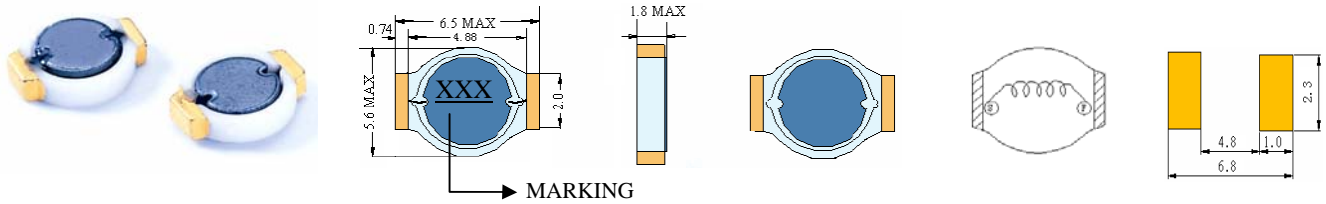


SC1606

SMD POWER INDUCTORS



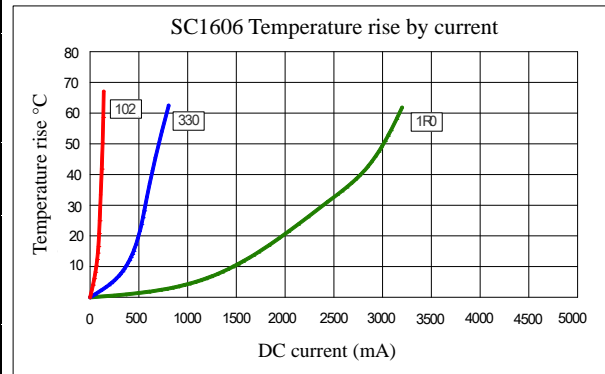
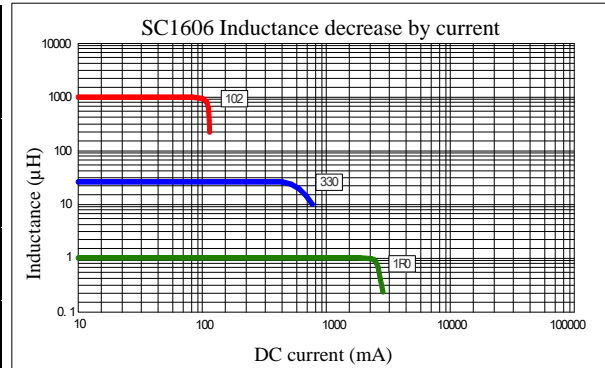
• Features

1. Non-magnetically shielded construction – Low EMI
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) |
|-------------|--------------------------------|----------------|--------------------------------------|---------------------------------------|--|
| SC1606-1R0 | 1.0 | 100KHZ | 90m | 2.50 | 2.45 |
| SC1606-1R5 | 1.5 | 100KHZ | 100m | 2.20 | 1.90 |
| SC1606-2R2 | 2.2 | 100KHZ | 110m | 1.80 | 1.78 |
| SC1606-3R3 | 3.3 | 100KHZ | 120m | 1.40 | 1.65 |
| SC1606-4R7 | 4.7 | 100KHZ | 160m | 1.20 | 1.40 |
| SC1606-6R8 | 6.8 | 100KHZ | 240m | 1.10 | 1.18 |
| SC1606-100 | 10 | 100KHZ | 300m | 1.00 | 1.05 |
| SC1606-150 | 15 | 100KHZ | 400m | 0.80 | 0.88 |
| SC1606-220 | 22 | 100KHZ | 540m | 0.60 | 0.72 |
| SC1606-330 | 33 | 100KHZ | 820m | 0.50 | 0.58 |
| SC1606-470 | 47 | 100KHZ | 1.20 | 0.45 | 0.47 |
| SC1606-680 | 68 | 100KHZ | 1.60 | 0.35 | 0.40 |
| SC1606-101 | 100 | 100KHZ | 2.60 | 0.30 | 0.30 |
| SC1606-151 | 150 | 100KHZ | 3.50 | 0.25 | 0.26 |
| SC1606-221 | 220 | 100KHZ | 5.70 | 0.20 | 0.21 |
| SC1606-331 | 330 | 100KHZ | 9.30 | 0.16 | 0.16 |
| SC1606-471 | 470 | 100KHZ | 12.6 | 0.14 | 0.14 |
| SC1606-681 | 680 | 100KHZ | 17.5 | 0.12 | 0.12 |
| SC1606-102 | 1000 | 100KHZ | 26.8 | 0.08 | 0.10 |



(1). Inductance tolerance for 1.0uH: $\pm 30\%$, for 1.5uH~1000uH: $\pm 20\%$. 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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Custom versions available upon request.