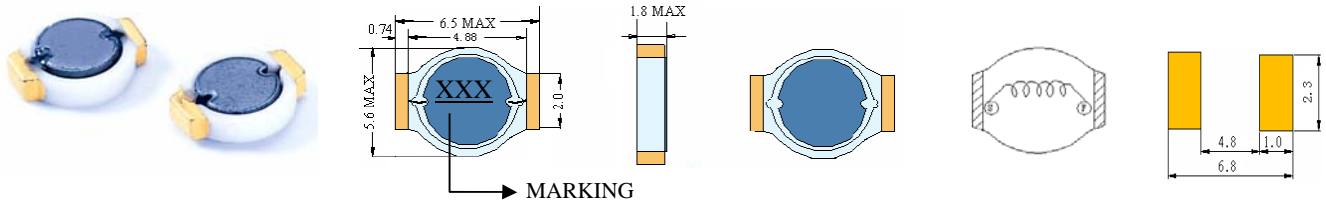


# SC1606

## SMD POWER INDUCTORS



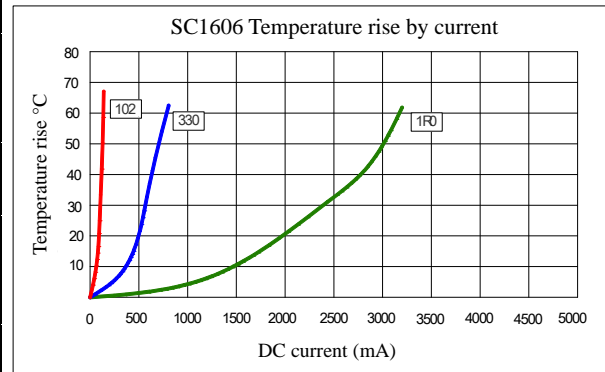
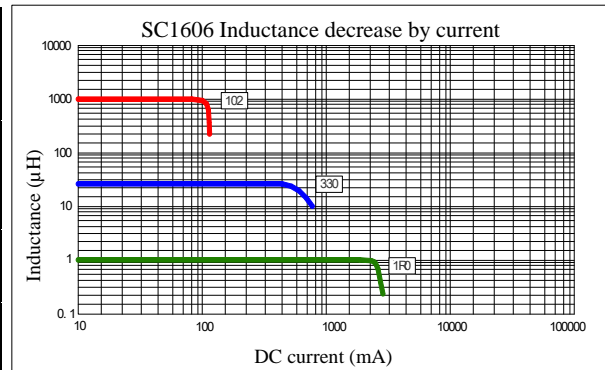
### • Features

1. Non-magnetically shielded construction – Low EMI
2. Excellent Power Density
3. Engineered to Provide High Efficiency



## ELECTRICAL CHARACTERISTICS

| Part Number | Inductance (uH) <sup>(1)</sup> | Test Frequency | DC Resistance (Ω MAX) <sup>(2)</sup> | Saturation Current <sup>(3)</sup> (A) | Temperature Current <sup>(4)</sup> (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.

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