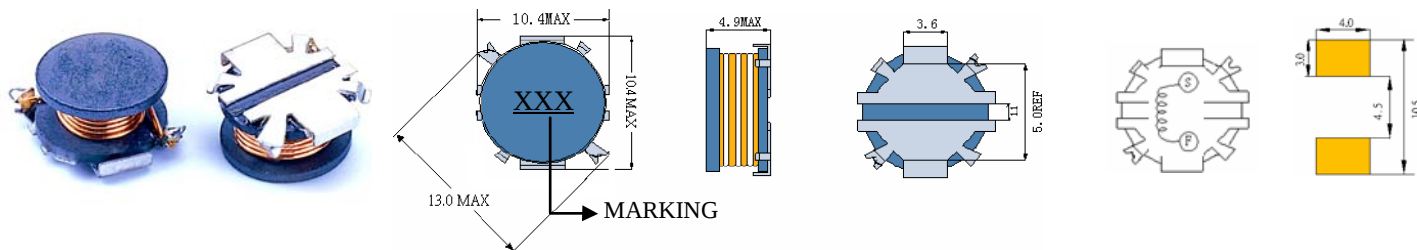


# SCH114

## SMD POWER INDUCTORS



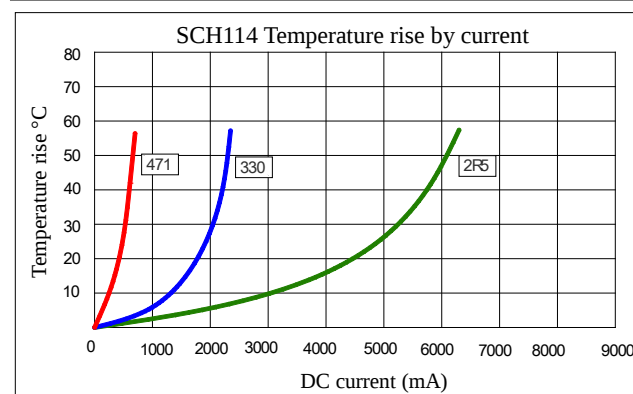
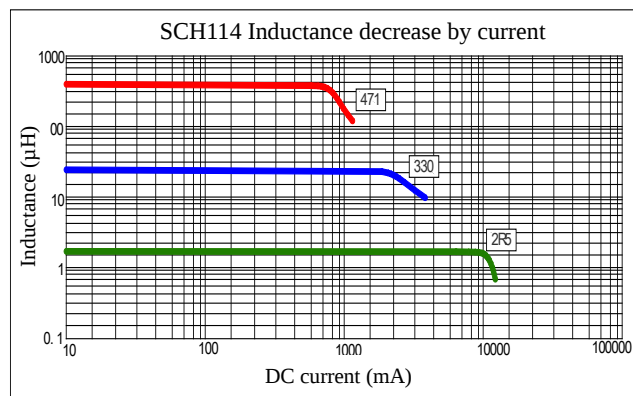
### • Features

1. Open frame construction
2. Excellent Power Density
3. Engineered to Provide High Efficiency

## CHARACTERISTICS



| Part Number | Inductance<br>(uH)<br>(1) | Test<br>Frequency | DC Resistance<br>(Ω MAX)<br>(2) | Saturation<br>Current<br>(A)<br>(3) | Temperature<br>Current<br>(A)<br>(4) |
|-------------|---------------------------|-------------------|---------------------------------|-------------------------------------|--------------------------------------|
| SCH114-2R5  | 2.5                       | 100KHZ            | 30m                             | 6.50                                | 5.10                                 |
| SCH114-3R9  | 3.9                       | 100KHZ            | 37m                             | 5.50                                | 4.70                                 |
| SCH114-4R7  | 4.7                       | 100KHZ            | 44m                             | 5.10                                | 4.50                                 |
| SCH114-5R6  | 5.6                       | 100KHZ            | 48m                             | 4.80                                | 4.10                                 |
| SCH114-6R8  | 6.8                       | 100KHZ            | 54m                             | 4.50                                | 3.70                                 |
| SCH114-8R6  | 8.6                       | 100KHZ            | 60m                             | 4.20                                | 3.40                                 |
| SCH114-100  | 10                        | 100KHZ            | 66m                             | 4.00                                | 3.10                                 |
| SCH114-120  | 12                        | 100KHZ            | 68m                             | 3.80                                | 2.90                                 |
| SCH114-150  | 15                        | 100KHZ            | 74m                             | 3.50                                | 2.75                                 |
| SCH114-180  | 18                        | 100KHZ            | 85m                             | 3.40                                | 2.55                                 |
| SCH114-220  | 22                        | 100KHZ            | 100m                            | 3.00                                | 2.37                                 |
| SCH114-270  | 27                        | 100KHZ            | 114m                            | 2.70                                | 2.18                                 |
| SCH114-330  | 33                        | 100KHZ            | 122m                            | 2.50                                | 2.05                                 |
| SCH114-390  | 39                        | 100KHZ            | 139m                            | 2.30                                | 1.95                                 |
| SCH114-470  | 47                        | 100KHZ            | 175m                            | 2.00                                | 1.80                                 |
| SCH114-560  | 56                        | 100KHZ            | 194m                            | 1.90                                | 1.70                                 |
| SCH114-680  | 68                        | 100KHZ            | 241m                            | 1.70                                | 1.58                                 |
| SCH114-820  | 82                        | 100KHZ            | 289m                            | 1.45                                | 1.40                                 |
| SCH114-101  | 100                       | 100KHZ            | 352m                            | 1.32                                | 1.20                                 |
| SCH114-121  | 120                       | 100KHZ            | 397m                            | 1.23                                | 1.08                                 |
| SCH114-151  | 150                       | 100KHZ            | 492m                            | 1.10                                | 0.96                                 |
| SCH114-181  | 180                       | 100KHZ            | 589m                            | 1.00                                | 0.90                                 |
| SCH114-221  | 220                       | 100KHZ            | 747m                            | 0.90                                | 0.80                                 |
| SCH114-271  | 270                       | 100KHZ            | 927m                            | 0.72                                | 0.68                                 |
| SCH114-331  | 330                       | 100KHZ            | 1.22                            | 0.70                                | 0.56                                 |
| SCH114-391  | 390                       | 100KHZ            | 1.30                            | 0.62                                | 0.52                                 |
| SCH114-471  | 470                       | 100KHZ            | 1.56                            | 0.60                                | 0.50                                 |



- (1). Inductance tolerance for 2.5uH~8.6uH:  $\pm 30\%$ , for 10uH~56uH:  $\pm 20\%$ , for 68uH~470uH:  $\pm 10\%$ . Tested at 0.25V, 0ADC and 25°C
- (2). DCR easured 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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