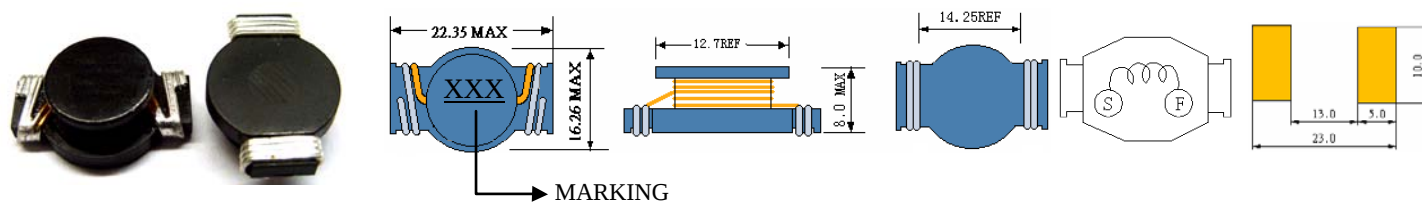


# SC5022FH

## SMD POWER INDUCTORS



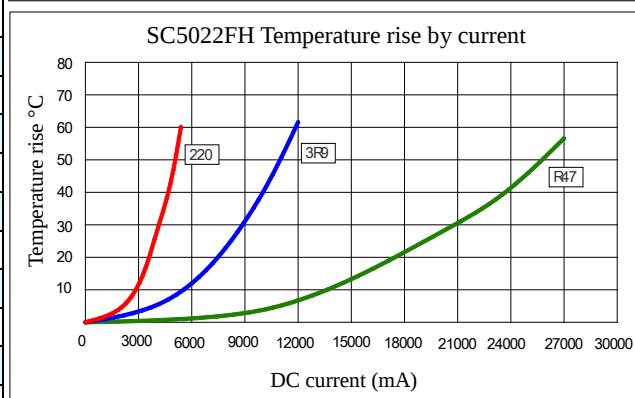
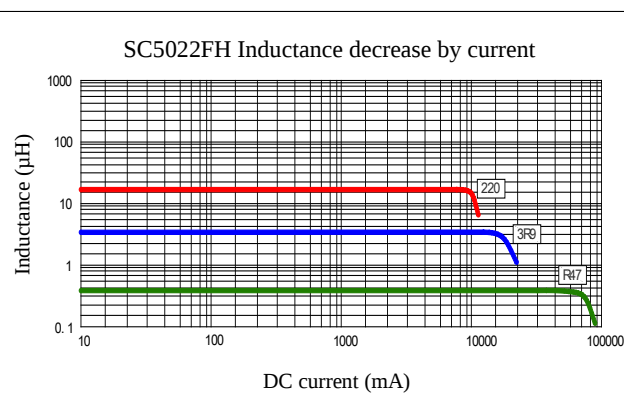
### • Features

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

## ELECTRICAL CHARACTERISTICS



| Part Number  | Inductance<br>( $\mu$ H)<br>(1) | Test<br>Frequency | DC Resistance<br>( $\Omega$ MAX)<br>(2) | Saturation<br>Current<br>(A) | Temperature<br>Current<br>(A)<br>(4) |
|--------------|---------------------------------|-------------------|-----------------------------------------|------------------------------|--------------------------------------|
| SC5022FH-R47 | 0.47                            | 100KHZ            | 2.0m                                    | 40                           | 20.0                                 |
| SC5022FH-R82 | 0.82                            | 100KHZ            | 2.6m                                    | 30                           | 17.0                                 |
| SC5022FH-1R5 | 1.5                             | 100KHZ            | 4.0m                                    | 25                           | 14.2                                 |
| SC5022FH-2R2 | 2.2                             | 100KHZ            | 6.1m                                    | 20                           | 12.0                                 |
| SC5022FH-2R7 | 2.7                             | 100KHZ            | 8.0m                                    | 18                           | 10.0                                 |
| SC5022FH-3R3 | 3.3                             | 100KHZ            | 9.0m                                    | 17                           | 9.4                                  |
| SC5022FH-3R9 | 3.9                             | 100KHZ            | 10m                                     | 15                           | 9.0                                  |
| SC5022FH-4R7 | 4.7                             | 100KHZ            | 14m                                     | 13                           | 8.0                                  |
| SC5022FH-6R8 | 6.8                             | 100KHZ            | 18m                                     | 12                           | 6.5                                  |
| SC5022FH-100 | 10                              | 100KHZ            | 26m                                     | 10                           | 6.0                                  |
| SC5022FH-150 | 15                              | 100KHZ            | 32m                                     | 8.0                          | 4.8                                  |
| SC5022FH-220 | 22                              | 100KHZ            | 50m                                     | 7.6                          | 3.6                                  |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |
|              |                                 |                   |                                         |                              |                                      |



(1). Inductance tolerance for 0.47 $\mu$ H~4.7 $\mu$ H:  $\pm 30\%$ , for 6.8 $\mu$ H~220 $\mu$ H:  $\pm 20\%$ . 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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[SC5022FH-2R2](#) [SC5022FH-4R7](#) [SC5022FH-3R3](#) [SC5022FH-2R7](#) [SC5022FH-6R8](#)