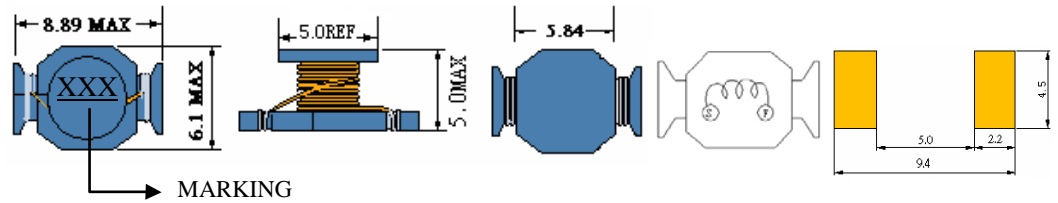


# SC1813FH

## SMD POWER INDUCTORS



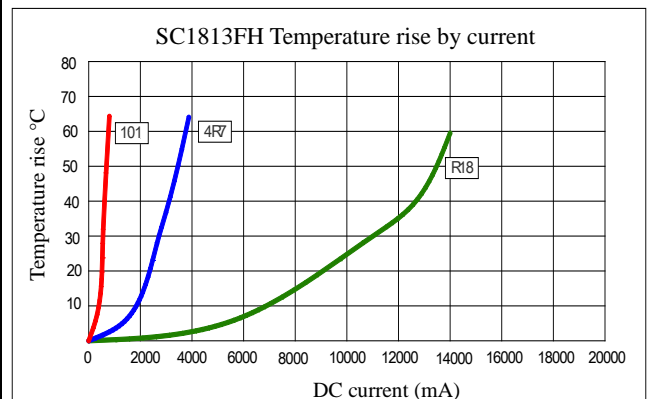
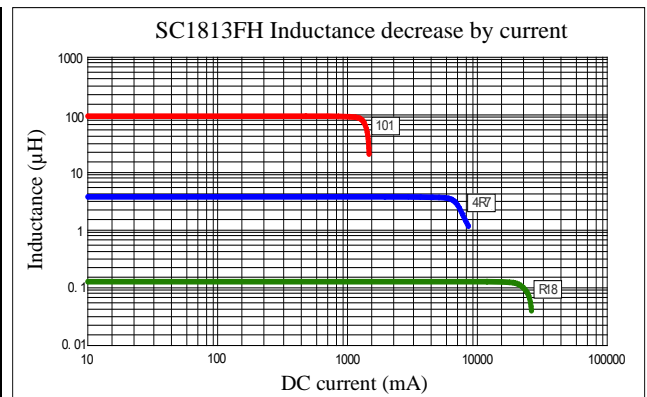
### • Features

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

## ELECTRICAL CHARACTERISTICS



| Part Number  | Inductance (uH)<br>(1) | Test Frequency | DC Resistance (Ω MAX)<br>(2) | Saturation Current (A)<br>(3) | Temperature Current (A)<br>(4) |
|--------------|------------------------|----------------|------------------------------|-------------------------------|--------------------------------|
| SC1813FH-R18 | 0.18                   | 100KHZ         | 4.5m                         | 14.00                         | 11.2                           |
| SC1813FH-R33 | 0.33                   | 100KHZ         | 5.2m                         | 10.00                         | 10.0                           |
| SC1813FH-R47 | 0.47                   | 100KHZ         | 9.5 m                        | 8.00                          | 8.00                           |
| SC1813FH-R56 | 0.56                   | 100KHZ         | 10m                          | 7.70                          | 7.00                           |
| SC1813FH-1R2 | 1.2                    | 100KHZ         | 17m                          | 5.30                          | 4.50                           |
| SC1813FH-1R6 | 1.6                    | 100KHZ         | 25m                          | 4.50                          | 4.20                           |
| SC1813FH-2R2 | 2.2                    | 100KHZ         | 35m                          | 3.50                          | 3.80                           |
| SC1813FH-3R3 | 3.3                    | 100KHZ         | 43m                          | 3.00                          | 3.30                           |
| SC1813FH-4R7 | 4.7                    | 100KHZ         | 54m                          | 2.60                          | 2.70                           |
| SC1813FH-6R8 | 6.8                    | 100KHZ         | 80m                          | 2.20                          | 2.20                           |
| SC1813FH-100 | 10                     | 100KHZ         | 0.11                         | 1.90                          | 1.80                           |
| SC1813FH-150 | 15                     | 100KHZ         | 0.17                         | 1.50                          | 1.40                           |
| SC1813FH-220 | 22                     | 100KHZ         | 0.25                         | 1.20                          | 1.20                           |
| SC1813FH-330 | 33                     | 100KHZ         | 0.35                         | 0.90                          | 0.92                           |
| SC1813FH-470 | 47                     | 100KHZ         | 0.47                         | 0.87                          | 0.80                           |
| SC1813FH-680 | 68                     | 100KHZ         | 0.73                         | 0.67                          | 0.66                           |
| SC1813FH-101 | 100                    | 100KHZ         | 1.11                         | 0.53                          | 0.54                           |
|              |                        |                |                              |                               |                                |
|              |                        |                |                              |                               |                                |



(1). Inductance tolerance for 0.18uH~1.6uH:  $\pm 30\%$ , for 2.2uH~100uH:  $\pm 20\%$ . 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.

[Click here for QUANTITY PER REEL & PACKING INFORMATION](#)

Custom versions available upon request.

©2011 Signal Transformer –Specification subject to change without notice. 07.11