

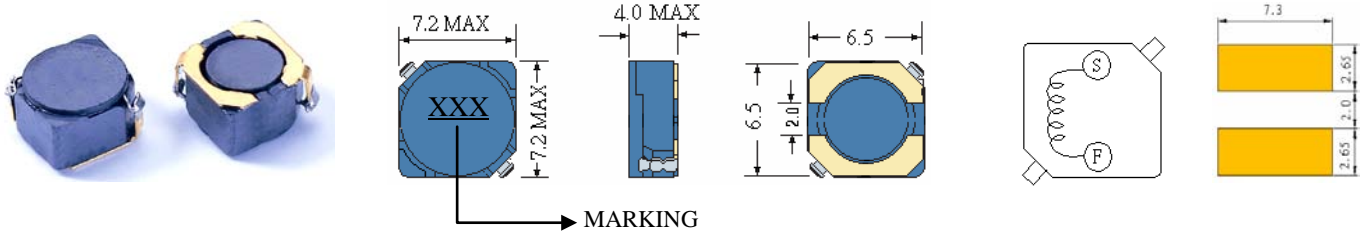


THE DATASHEET OF SCRH6D38-5R0



SCRH6D38

SMD POWER INDUCTORS



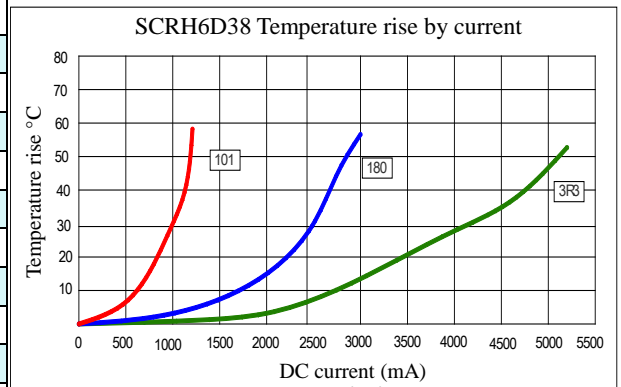
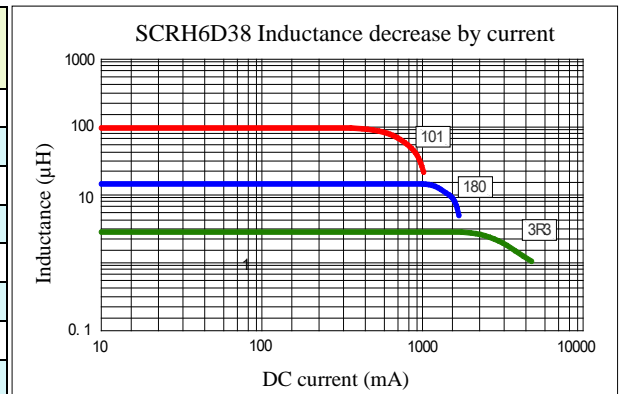
• Features

1. Magnetically shielded construction
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) |
|--------------|------------------------|----------------|------------------------------|-------------------------------|--------------------------------|
| SCRH6D38-3R3 | 3.3 | 10KHZ | 23m | 3.50 | 4.00 |
| SCRH6D38-5R0 | 5.0 | 10KHZ | 26m | 2.90 | 3.80 |
| SCRH6D38-6R2 | 6.2 | 10KHZ | 27m | 2.50 | 3.60 |
| SCRH6D38-7R4 | 7.4 | 10KHZ | 31m | 2.30 | 3.50 |
| SCRH6D38-8R7 | 8.7 | 10KHZ | 34m | 2.20 | 3.33 |
| SCRH6D38-100 | 10 | 10KHZ | 38m | 2.00 | 3.20 |
| SCRH6D38-120 | 12 | 10KHZ | 53m | 1.70 | 2.88 |
| SCRH6D38-150 | 15 | 10KHZ | 57m | 1.60 | 2.59 |
| SCRH6D38-180 | 18 | 10KHZ | 92m | 1.50 | 2.43 |
| SCRH6D38-220 | 22 | 10KHZ | 96m | 1.30 | 2.18 |
| SCRH6D38-270 | 27 | 10KHZ | 109m | 1.20 | 1.96 |
| SCRH6D38-330 | 33 | 10KHZ | 124m | 1.10 | 1.76 |
| SCRH6D38-390 | 39 | 10KHZ | 138m | 1.00 | 1.67 |
| SCRH6D38-470 | 47 | 10KHZ | 155m | 0.95 | 1.50 |
| SCRH6D38-560 | 56 | 10KHZ | 202m | 0.85 | 1.35 |
| SCRH6D38-680 | 68 | 10KHZ | 234m | 0.75 | 1.21 |
| SCRH6D38-820 | 82 | 10KHZ | 324m | 0.70 | 1.08 |
| SCRH6D38-101 | 100 | 10KHZ | 358m | 0.65 | 0.97 |
| | | | | | |
| | | | | | |
| | | | | | |





- (1). Inductance tolerance $\pm 30\%$ tested at 0.25V, 0ADC and 25°C
- (2). DCR measured at 25°C.
- (3). The DC current at which the inductance decreases by 35% 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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