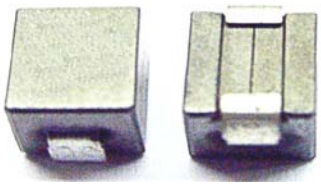
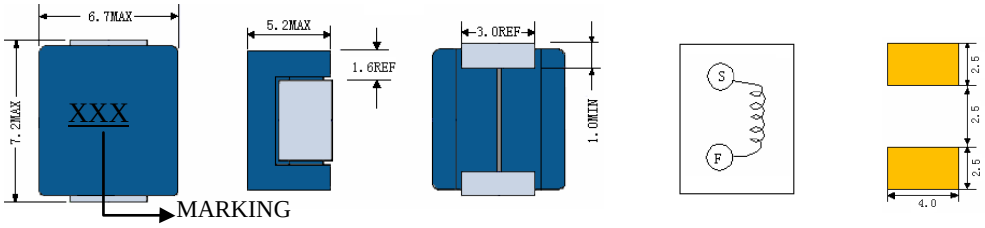
# SCPS6450

## SMD POWER INDUCTORS



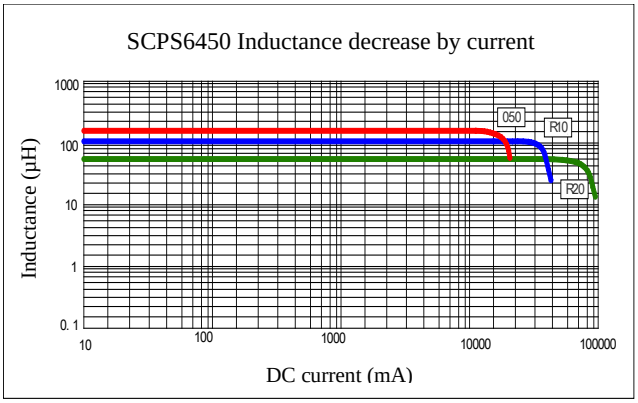


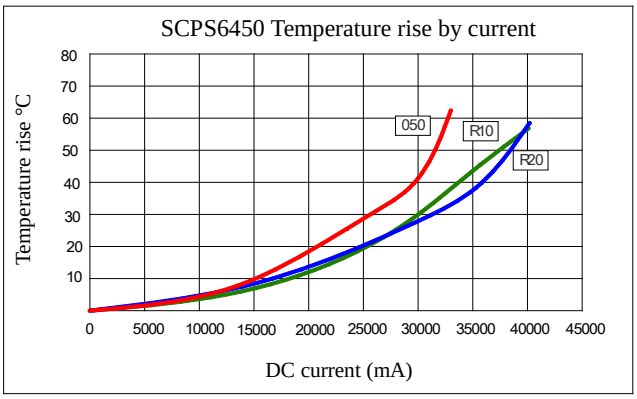

● Features

1. Surface mount inductors designed for high speed switch mode applications requiring low inductance and high current.
2. 125℃ operating temperature.
3. Inductance range from 0.05uH to 0.20uH.
3. High Current - up to 75 Amps.

## ELECTRICAL CHARACTERISTICS

| Part Number | Inductance (uH) (1) | Test Frequency | DC Resistance (Ω MAX) (2) | Saturation Current (3) (A) | Temperature Current (4) (A) |
|---|---|---|---|---|---|
| SCPS6450-050 | 0.05 | 1MHz | 0.29 | 70 | 30 |
| SCPS6450-R10 | 0.10 | 1MHz | 0.29 | 35.0 | 30 |
| SCPS6450-R15 | 0.15 | 1MHz | 0.29 | 25.5 | 30 |
| SCPS6450-R20 | 0.20 | 1MHz | 0.29 | 19 | 26 |




(1). Inductance tolerance ±20% tested at 0.25V, 0ADC and 25℃
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 30% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ambient.

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