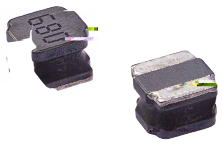
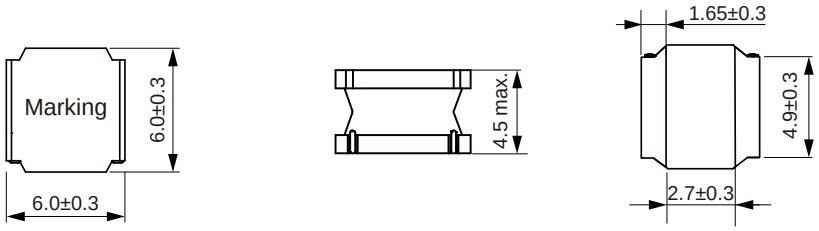
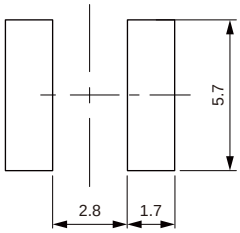
# SMD Shielded Tiny Power Inductor
# Size 6045



## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

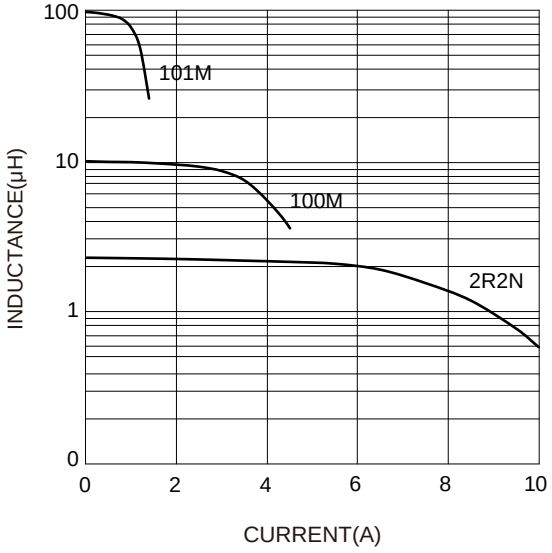
| | (µH) | | Saturation | | (mΩ) | Condition |
|---|---|---|---|---|---|---|
| NRSE6045-R56N | 0.56 | ±30% | 14.5 | 6.20 | 7.50 | 1MHz/0.25V |
| NRSE6045-1R0N | 1.00 | ±30% | 9.00 | 5.10 | 10.0 | 100KHz/0.25V |
| NRSE6045-1R5N | 1.50 | ±30% | 7.50 | 4.75 | 12.0 | 100KHz/0.25V |
| NRSE6045-1R8N | 1.80 | ±30% | 7.50 | 4.60 | 13.0 | 100KHz/0.25V |
| NRSE6045-2R2N | 2.20 | ±30% | 6.50 | 4.60 | 13.0 | 100KHz/0.25V |
| NRSE6045-3R3N | 3.30 | ±30% | 5.30 | 3.20 | 20.0 | 100KHz/0.25V |
| NRSE6045-3R9N | 3.90 | ±30% | 4.90 | 3.20 | 20.0 | 100KHz/0.25V |
| NRSE6045-4R7N | 4.70 | ±30% | 4.50 | 3.00 | 24.0 | 100KHz/0.25V |
| NRSE6045-5R6N | 5.60 | ±30% | 3.70 | 2.80 | 31.0 | 100KHz/0.25V |
| NRSE6045-6R8M | 6.80 | ±20% | 3.30 | 2.70 | 33.0 | 100KHz/0.25V |
| NRSE6045-8R2M | 8.20 | ±20% | 3.20 | 2.60 | 45.0 | 100KHz/0.25V |
| NRSE6045-100M | 10.0 | ±20% | 3.00 | 2.50 | 52.0 | 100KHz/0.25V |
| NRSE6045-120M | 12.0 | ±20% | 2.80 | 2.20 | 58.0 | 100KHz/0.25V |
| NRSE6045-150M | 15.0 | ±20% | 2.50 | 1.90 | 77.0 | 100KHz/0.25V |
| NRSE6045-180M | 18.0 | ±20% | 2.20 | 1.75 | 95.0 | 100KHz/0.25V |
| NRSE6045-220M | 22.0 | ±20% | 2.00 | 1.50 | 115 | 100KHz/0.25V |

| | (μH) | | Saturation | | (mΩ) | Condition |
|---|---|---|---|---|---|---|
| NRSE6045-270M | 27.0 | ±20% | 1.90 | 1.48 | 120 | 100KHz/0.25V |
| NRSE6045-330M | 33.0 | ±20% | 1.60 | 1.45 | 150 | 100KHz/0.25V |
| NRSE6045-390M | 39.0 | ±20% | 1.50 | 1.25 | 180 | 100KHz/0.25V |
| NRSE6045-470M | 47.0 | ±20% | 1.40 | 1.20 | 220 | 100KHz/0.25V |
| NRSE6045-560M | 56.0 | ±20% | 1.30 | 1.10 | 260 | 100KHz/0.25V |
| NRSE6045-680M | 68.0 | ±20% | 1.20 | 0.90 | 290 | 100KHz/0.25V |
| NRSE6045-820M | 82.0 | ±20% | 1.10 | 0.85 | 355 | 100KHz/0.25V |
| NRSE6045-101M | 100 | ±20% | 1.00 | 0.80 | 430 | 100KHz/0.25V |
| NRSE6045-121M | 120 | ±20% | 0.85 | 0.75 | 530 | 100KHz/0.25V |
| NRSE6045-151M | 150 | ±20% | 0.80 | 0.70 | 760 | 100KHz/0.25V |
| NRSE6045-181M | 180 | ±20% | 0.75 | 0.65 | 845 | 100KHz/0.25V |
| NRSE6045-221M | 220 | ±20% | 0.63 | 0.55 | 890 | 100KHz/0.25V |
| NRSE6045-331M | 330 | ±20% | 0.57 | 0.50 | 1851 | 100KHz/1V |

Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

## Typical Electrical Characteristics:

Inductance VS. Current Characteristics:




Temperture Rise VS. Current Characteristics: