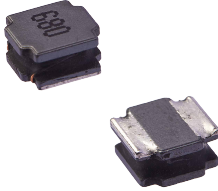


NRSE Series
SMD Shielded Tiny Power Inductor
Size 8040



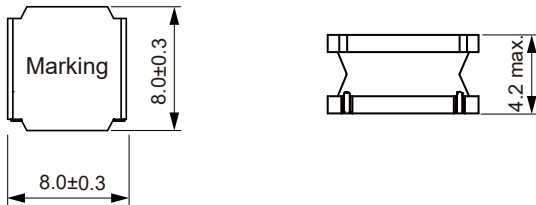
CHARACTERISTICS

- Magnetic resin for higher current and semi-magnetically shielded
- Quantity: 1000pcs

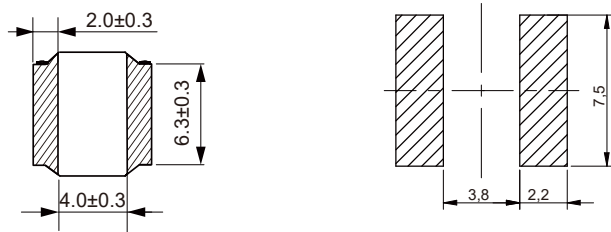
APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

| Part No | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DCR ±30% (mΩ) | Test Condition |
|---------------|-----------------|-----------|------------------------|------------------------------|---------------|----------------|
| NRSE8040-R56N | 0.56 | ±30% | 11.5 | 7.60 | 5 | 1MHz/0.25V |
| NRSE8040-1R0N | 1.0 | ±30% | 9.85 | 6.30 | 8 | 100KHz/0.25V |
| NRSE8040-1R5N | 1.5 | ±30% | 8.15 | 5.65 | 10 | 100KHz/0.25V |
| NRSE8040-2R2N | 2.2 | ±30% | 7.10 | 5.15 | 12 | 100KHz/0.25V |
| NRSE8040-3R3N | 3.3 | ±30% | 6.50 | 4.40 | 17 | 100KHz/0.25V |
| NRSE8040-4R7N | 4.7 | ±30% | 5.90 | 4.00 | 20 | 100KHz/0.25V |
| NRSE8040-5R6N | 5.6 | ±30% | 5.50 | 3.80 | 24 | 100KHz/0.25V |
| NRSE8040-6R8M | 6.8 | ±20% | 4.55 | 3.60 | 28 | 100KHz/0.25V |
| NRSE8040-8R2M | 8.2 | ±20% | 4.20 | 3.40 | 35 | 100KHz/0.25V |
| NRSE8040-100M | 10 | ±20% | 3.60 | 3.10 | 37 | 100KHz/0.25V |
| NRSE8040-120M | 12 | ±20% | 3.30 | 2.80 | 45 | 100KHz/0.25V |
| NRSE8040-150M | 15 | ±20% | 2.95 | 2.50 | 56 | 100KHz/0.25V |
| NRSE8040-180M | 18 | ±20% | 2.70 | 2.40 | 58 | 100KHz/0.25V |
| NRSE8040-220M | 22 | ±20% | 2.40 | 2.00 | 74 | 100KHz/0.25V |
| NRSE8040-270M | 27 | ±20% | 2.15 | 1.90 | 80 | 100KHz/0.25V |
| NRSE8040-330M | 33 | ±20% | 2.05 | 1.70 | 100 | 100KHz/0.25V |
| NRSE8040-470M | 47 | ±20% | 1.75 | 1.50 | 158 | 100KHz/0.25V |
| NRSE8040-560M | 56 | ±20% | 1.55 | 1.40 | 160 | 100KHz/0.25V |

| Part No | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DCR ±30% (mΩ) | Test Condition |
|---------------|-----------------|-----------|------------------------|------------------------------|---------------|----------------|
| NRSE8040-680M | 68 | ±20% | 1.45 | 1.20 | 196 | 100KHz/0.25V |
| NRSE8040-820M | 82 | ±20% | 1.30 | 1.10 | 245 | 100KHz/0.25V |
| NRSE8040-101M | 100 | ±20% | 1.15 | 1.00 | 295 | 100KHz/0.25V |
| NRSE8040-121M | 120 | ±20% | 1.10 | 0.90 | 380 | 100KHz/0.25V |
| NRSE8040-151M | 150 | ±20% | 1.10 | 0.80 | 470 | 100KHz/0.25V |
| NRSE8040-171M | 170 | ±20% | 0.95 | 0.75 | 538 | 100KHz/0.25V |
| NRSE8040-181M | 180 | ±20% | 0.90 | 0.75 | 610 | 100KHz/0.25V |
| NRSE8040-221M | 220 | ±20% | 0.85 | 0.70 | 660 | 100KHz/0.25V |
| NRSE8040-331M | 330 | ±20% | 0.68 | 0.55 | 970 | 100KHz/0.25V |
| NRSE8040-471M | 470 | ±20% | 0.60 | 0.48 | 1400 | 100KHz/0.25V |
| NRSE8040-681M | 680 | ±20% | 0.50 | 0.45 | 1750 | 100KHz/0.25V |

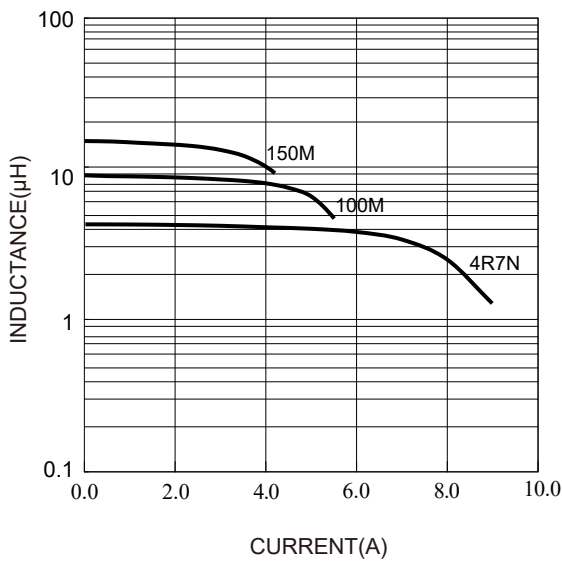
Operating temperature : -40 °C ~ +125 °C

Temperature rise current: the actual value of DC current when the temperature rise is ΔT40 °C

Saturation Current that will cause initial inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:

