

**NRSE Series**  
**SMD Shielded Tiny Power Inductor**  
**Size 8065**



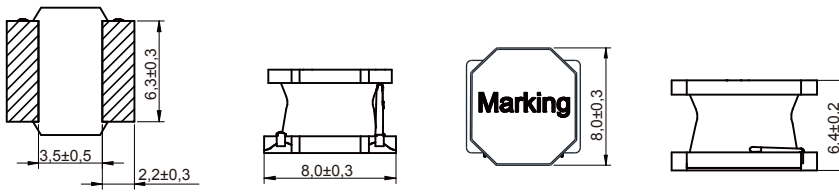
**CHARACTERISTICS**

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape
- Quantity: 700pcs

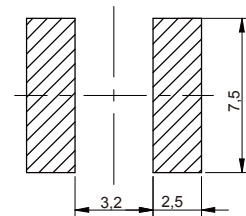
**APPLICATION**

- DC/DC converter
- LC filter

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

| Part No       | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DC Resistance ±30% (mΩ) |
|---------------|-----------------|-----------|------------------------|------------------------------|-------------------------|
| NRSE8065-3R3N | 3.3             | ±30%      | 9.5                    | 5.1                          | 15                      |
| NRSE8065-4R7N | 4.7             | ±30%      | 8.5                    | 4.7                          | 18                      |
| NRSE8065-6R8M | 6.8             | ±20%      | 7.6                    | 4.3                          | 26                      |
| NRSE8065-100M | 10              | ±20%      | 6.6                    | 4.0                          | 33                      |
| NRSE8065-150M | 15              | ±20%      | 5.2                    | 3.5                          | 45                      |
| NRSE8065-220M | 22              | ±20%      | 4.3                    | 2.85                         | 55                      |
| NRSE8065-330M | 33              | ±20%      | 3.6                    | 2.0                          | 85                      |
| NRSE8065-470M | 47              | ±20%      | 2.85                   | 1.8                          | 135                     |
| NRSE8065-680M | 68              | ±20%      | 2.5                    | 1.5                          | 181                     |
| NRSE8065-101M | 100             | ±20%      | 2.0                    | 1.3                          | 250                     |
| NRSE8065-151M | 150             | ±20%      | 1.6                    | 1.0                          | 360                     |
| NRSE8065-221M | 220             | ±20%      | 1.3                    | 0.9                          | 530                     |
| NRSE8065-331M | 330             | ±20%      | 1.2                    | 0.7                          | 850                     |
| NRSE8065-471M | 470             | ±20%      | 1.0                    | 0.55                         | 1300                    |
| NRSE8065-102M | 1000            | ±20%      | 0.65                   | 0.4                          | 2350                    |
| NRSE8065-152M | 1500            | ±20%      | 0.54                   | 0.32                         | 3650                    |
| NRSE8065-202M | 2000            | ±20%      | 0.45                   | 0.27                         | 4900                    |
| NRSE8065-222M | 2200            | ±20%      | 0.45                   | 0.27                         | 5100                    |

| Part No       | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DC Resistance ±30% (mΩ) |
|---------------|-----------------|-----------|------------------------|------------------------------|-------------------------|
| NRSE8065-302M | 3000            | ±20%      | 0.38                   | 0.25                         | 7000                    |
| NRSE8065-332M | 3300            | ±20%      | 0.36                   | 0.23                         | 7300                    |
| NRSE8065-452M | 4500            | ±20%      | 0.3                    | 0.18                         | 12300                   |
| NRSE8065-472M | 4700            | ±20%      | 0.29                   | 0.18                         | 12500                   |
| NRSE8065-562M | 5600            | ±20%      | 0.26                   | 0.15                         | 16000                   |
| NRSE8065-682M | 6800            | ±20%      | 0.26                   | 0.14                         | 18700                   |
| NRSE8065-822M | 8200            | ±20%      | 0.22                   | 0.13                         | 19000                   |
| NRSE8065-103M | 10000           | ±20%      | 0.2                    | 0.12                         | 22000                   |

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%

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