

**NRSE Series**  
**SMD Shielded Tiny Power Inductor**  
**Size 6028**



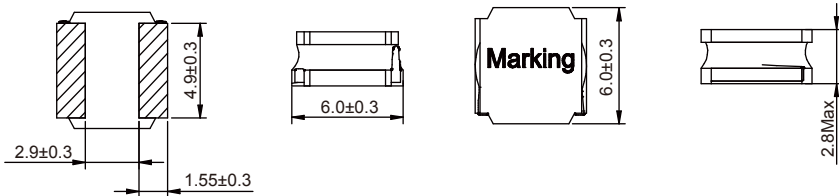
**CHARACTERISTICS**

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape
- Quantity: 2000pcs

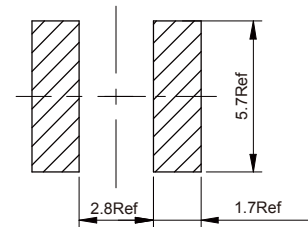
**APPLICATION**

- 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) |
|---------------|-----------------|-----------|------------------------|------------------------------|---------------|
| NRSE6028-1R0N | 1.0             | ±30%      | 6.7                    | 4.6                          | 12            |
| NRSE6028-1R2N | 1.2             | ±30%      | 6.5                    | 4.3                          | 16            |
| NRSE6028-1R5N | 1.5             | ±30%      | 6.0                    | 4.3                          | 16            |
| NRSE6028-1R8N | 1.8             | ±30%      | 5.3                    | 4.1                          | 19            |
| NRSE6028-2R2N | 2.2             | ±30%      | 5.1                    | 3.75                         | 20            |
| NRSE6028-3R3N | 3.3             | ±30%      | 3.63                   | 3.4                          | 25            |
| NRSE6028-4R7N | 4.7             | ±30%      | 3.0                    | 3.0                          | 33            |
| NRSE6028-5R6N | 5.6             | ±30%      | 2.8                    | 2.45                         | 45            |
| NRSE6028-6R8M | 6.8             | ±20%      | 2.6                    | 2.4                          | 56            |
| NRSE6028-8R2M | 8.2             | ±20%      | 2.4                    | 2.25                         | 68            |
| NRSE6028-100M | 10              | ±20%      | 2.05                   | 1.9                          | 78            |
| NRSE6028-120M | 12              | ±20%      | 1.8                    | 1.7                          | 88            |
| NRSE6028-150M | 15              | ±20%      | 1.75                   | 1.5                          | 125           |
| NRSE6028-180M | 18              | ±20%      | 1.55                   | 1.45                         | 130           |
| NRSE6028-220M | 22              | ±20%      | 1.45                   | 1.4                          | 140           |
| NRSE6028-270M | 27              | ±20%      | 1.4                    | 1.3                          | 180           |
| NRSE6028-330M | 33              | ±20%      | 1.35                   | 1.1                          | 220           |

| Part No       | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DCR ±30% (mΩ) |
|---------------|-----------------|-----------|------------------------|------------------------------|---------------|
| NRSE6028-390M | 39              | ±20%      | 1.25                   | 1.1                          | 225           |
| NRSE6028-470M | 47              | ±20%      | 1.15                   | 1.05                         | 280           |
| NRSE6028-680M | 68              | ±20%      | 0.95                   | 0.85                         | 420           |
| NRSE6028-820M | 82              | ±20%      | 0.8                    | 0.7                          | 550           |
| NRSE6028-101M | 100             | ±20%      | 0.65                   | 0.6                          | 670           |
| NRSE6028-121M | 120             | ±20%      | 0.62                   | 0.58                         | 820           |

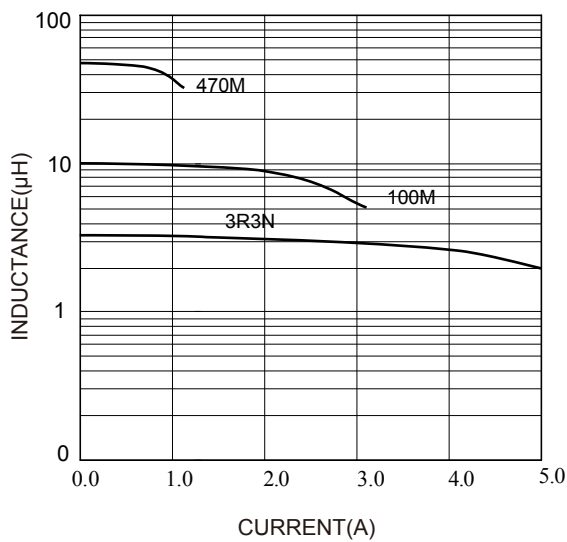
Operating temperature : -40°C ~ +125°C

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

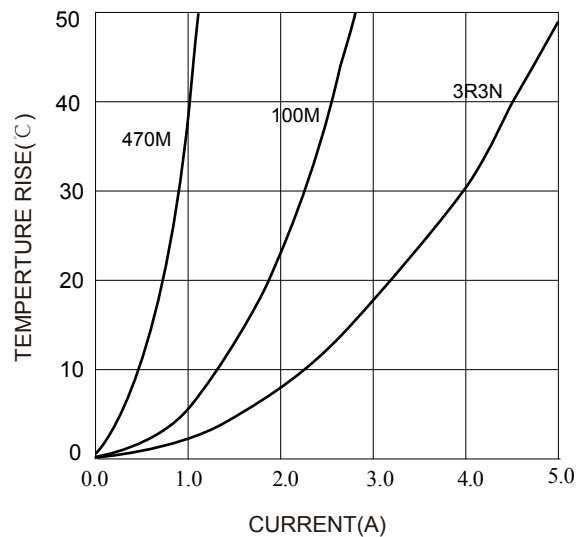
Saturation Current that will cause initial inductance to drop approximately 30%

### Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:



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