

## NRSE Series

### SMD Shielded Tiny Power Inductor

### Size 6020

#### CHARACTERISTICS

- Magnetic resin for higher current and semi-magnetically shielded
- Quantity: 3000pcs

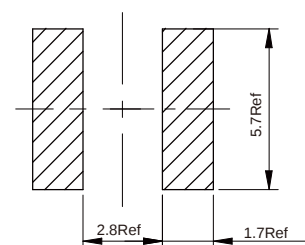
#### APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

|               | Inductance<br>@100KHz/0.25V |      | current | Temperature Rise<br>Current | DCR<br>±30% |
|---------------|-----------------------------|------|---------|-----------------------------|-------------|
| NRSE6020-R68N | 0.68                        | ±30% | 7.5     | 3.8                         | 15          |
| NRSE6020-1R0N | 1.0                         | ±30% | 4.8     | 3.5                         | 20          |
| NRSE6020-1R2N | 1.2                         | ±30% | 4.3     | 3.5                         | 20          |
| NRSE6020-1R5N | 1.5                         | ±30% | 4.3     | 3.2                         | 25          |
| NRSE6020-2R2N | 2.2                         | ±30% | 3.75    | 2.75                        | 35          |
| NRSE6020-3R3N | 3.3                         | ±30% | 3.15    | 2.6                         | 45          |
| NRSE6020-4R7N | 4.7                         | ±30% | 3.0     | 2.0                         | 58          |
| NRSE6020-5R6M | 5.6                         | ±20% | 2.4     | 1.9                         | 70          |
| NRSE6020-6R8M | 6.8                         | ±20% | 2.2     | 1.8                         | 85          |
| NRSE6020-100M | 10                          | ±20% | 1.75    | 1.4                         | 120         |
| NRSE6020-150M | 15                          | ±20% | 1.5     | 1.2                         | 160         |
| NRSE6020-220M | 22                          | ±20% | 1.25    | 1.0                         | 240         |
| NRSE6020-270M | 27                          | ±20% | 1.15    | 0.95                        | 350         |
| NRSE6020-330M | 33                          | ±20% | 1.1     | 0.9                         | 400         |
| NRSE6020-470M | 47                          | ±20% | 1.0     | 0.8                         | 500         |
| NRSE6020-680M | 68                          | ±20% | 0.8     | 0.68                        | 815         |

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: