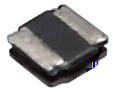
# NRSE Series

SMD Shielded Tiny Power Inductor
Size 3015



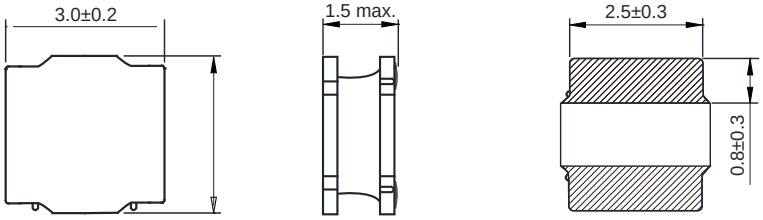
### CHARACTERISTICS

- Magne c resin for higher current and semi-magne cally shielded
- Quan ty: 2000pcs

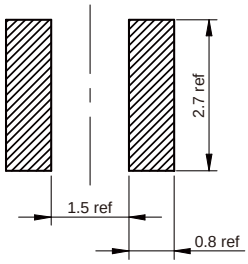
### APPLICATION

- DC/DC converter
- LC filter

## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

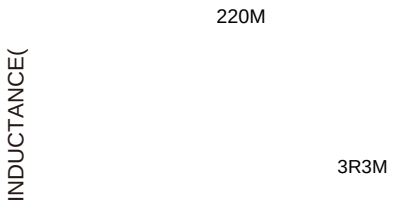
| Part No | Inductance (µH) | Tolerance | Satura on Current (A) 4.80 | Temperature Rise Current (A) | DC Resistance ±30% (mΩ) | Test Condi on 1MHz/0.25V |
|---|---|---|---|---|---|---|
| NRSE3015-R24N | 0.24 | ±30% | 4.60 | 3.50 | 14 | 1MHz/0.25V |
| NRSE3015-R30N | 0.30 | ±30% | 4.00 | 3.50 | 15 | 100KHz/0.25V |
| NRSE3015-R47N | 0.47 | ±30% | 3.30 | 3.50 | 20 | 100KHz/0.25V |
| NRSE3015-R56N | 0.56 | ±30% | 2.32 | 2.80 | 20 | 100KHz/0.25V |
| NRSE3015-1R0N | 1.0 | ±30% | 2.00 | 2.10 | 30 | 100KHz/0.25V |
| NRSE3015-1R5N | 1.5 | ±30% | 1.75 | 1.70 | 50 | 100KHz/0.25V |
| NRSE3015-1R8N | 1.8 | ±30% | 1.60 | 1.65 | 55 | 100KHz/0.25V |
| NRSE3015-2R2N | 2.2 | ±30% | 1.52 | 1.60 | 60 | 100KHz/0.25V |
| NRSE3015-2R7N | 2.7 | ±30% | 1.32 | 1.50 | 70 | 100KHz/0.25V |
| NRSE3015-3R3M | 3.3 | ±20% | 1.20 | 1.36 | 80 | 100KHz/0.25V |
| NRSE3015-3R9M | 3.9 | ±20% | 1.10 | 1.10 | 108 | 100KHz/0.25V |
| NRSE3015-4R7M | 4.7 | ±20% | 1.05 | 1.09 | 125 | 100KHz/0.25V |
| NRSE3015-5R6M | 5.6 | ±20% | 0.85 | 1.00 | 170 | 100KHz/0.25V |
| NRSE3015-6R8M | 6.8 | ±20% | 0.80 | 0.85 | 2 0 | 100KHz/0.25V |
| NRSE3015-8R2M | 8.2 | ±20% | 0.72 | 0.75 | r | 100KHz/0.25V |
| NRSE3015-100M | 10 | ±20% | | 0.77 | | |

| | Inductance (μH) | | Satura on Current (A) | | |
|---|---|---|---|---|---|
| NRSE3015-120M | 12 | ±20% | 0.70 | 0.68 | 288 |
| NRSE3015-150M | 15 | ±20% | 0.66 | 0.65 | 350 |
| NRSE3015-180M | 18 | ±20% | 0.56 | 0.59 | 430 |
| NRSE3015-220M | 22 | ±20% | 0.52 | 0.57 | 460 |
| NRSE3015-270M | 27 | ±20% | 0.48 | 0.46 | 630 |
| NRSE3015-330M | 33 | ±20% | 0.44 | 0.42 | 780 |
| NRSE3015-470M | 47 | ±20% | 0.35 | 0.32 | 1200 |

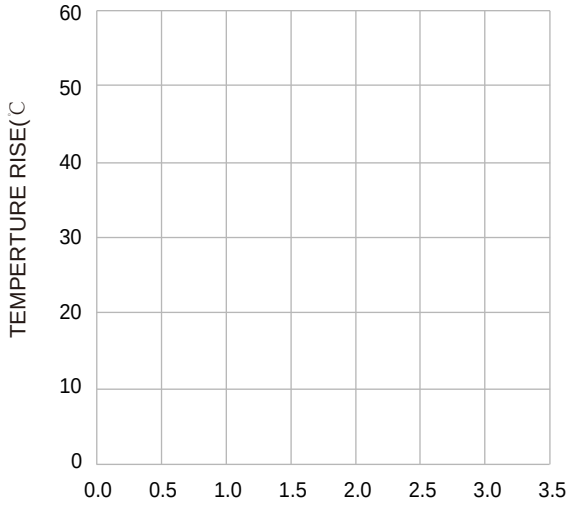
Opera ng temperature : -40℃ ~ +125℃
Temperature rise current: the actual value of DC current when the temperature rise is ΔT40℃
Satura on Current that will cause ini al inductance to drop approximately 30%

## Typical Electrical Characteristics:

Inductance VS. Current Characteristics:




Temperture Rise VS. Current Characteristics:



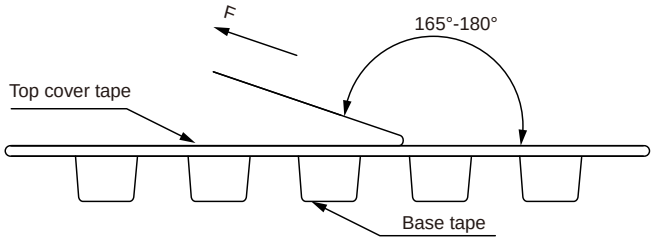
## Soldering Reflow:

## Packaging Information:

Tape Dimension:

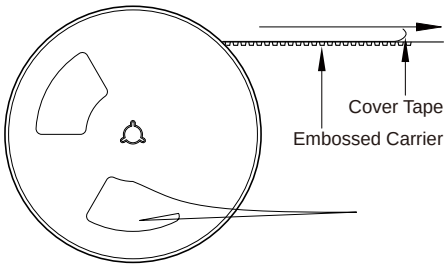
| Series | A0 | B0 | D | P0 | P1 | W | K0 | E | T |
|---|---|---|---|---|---|---|---|---|---|
| NRSE3015 | 3.30 ± 0.1 | 3.30 ± 0.1 | 1.50 ± 0.1 | 4.00 ± 0.1 | 4.00 ± 0.1 | 8.00 ± 0.3 | 1.90 ± 0.1 | 1.75 ± 0.1 | 0.25 ± 0.1 |

Peel force of top cover tape:




The peel force of top cover tape shall be between 0.14 to 0.88 N

Reel Dimension：[mm]




Packaging Quantity: