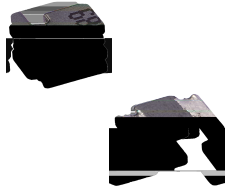


# NRSE Series

## SMD Shielded Tiny Power Inductor

### Size 8040



#### CHARACTERISTICS

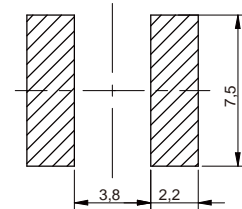
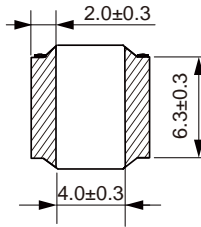
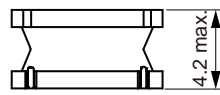
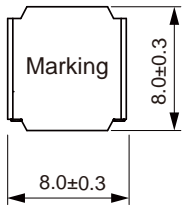
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#### APPLICATION

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Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

| Part No | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DCR ±30% (mΩ) | Test Condition |
|---------|-----------------|-----------|------------------------|------------------------------|---------------|----------------|
|         |                 |           |                        |                              | 5             |                |
|         |                 |           |                        |                              | 8             |                |
|         |                 |           |                        | 5.65                         |               |                |
|         | 2.2             |           |                        |                              |               |                |
|         | 3.3             |           |                        |                              |               |                |
|         | 4.7             |           |                        |                              |               |                |
|         | 5.6             |           |                        |                              | 24            |                |
|         | 6.8             |           | 4.55                   |                              | 28            |                |
|         | 8.2             |           |                        |                              | 35            |                |
|         |                 |           |                        |                              | 37            |                |
|         |                 |           |                        |                              | 45            |                |
|         |                 |           |                        |                              | 56            |                |
|         |                 |           |                        |                              | 58            |                |
|         | 22              |           |                        |                              | 74            |                |
|         | 27              |           |                        |                              |               |                |
|         | 33              |           |                        |                              |               |                |
|         | 47              |           |                        |                              |               |                |
|         | 56              |           |                        |                              |               |                |

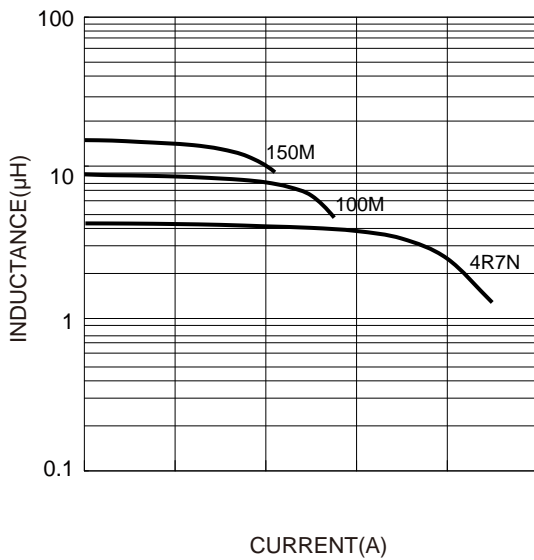
| Part No | Inductance (μH) | Tolerance | Saturation current (A) | Temperature Rise Current (A) | DCR ±30% (mΩ) | Test Condition |
|---------|-----------------|-----------|------------------------|------------------------------|---------------|----------------|
|         | 68              |           |                        |                              |               |                |
|         | 82              |           |                        |                              | 245           |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              | 538           |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |
|         |                 |           |                        |                              |               |                |

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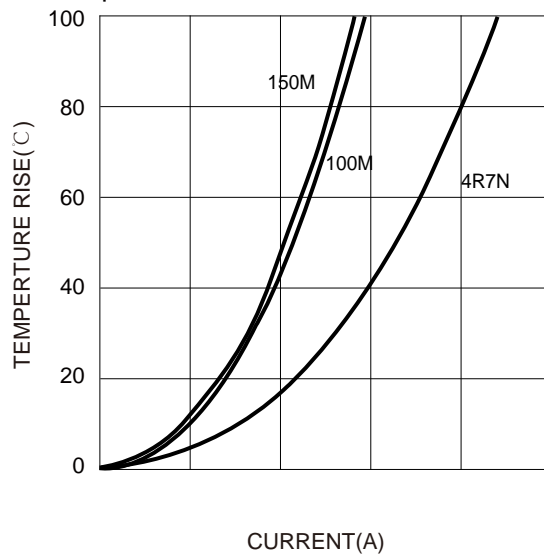
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### Typical Electrical Characteristics:

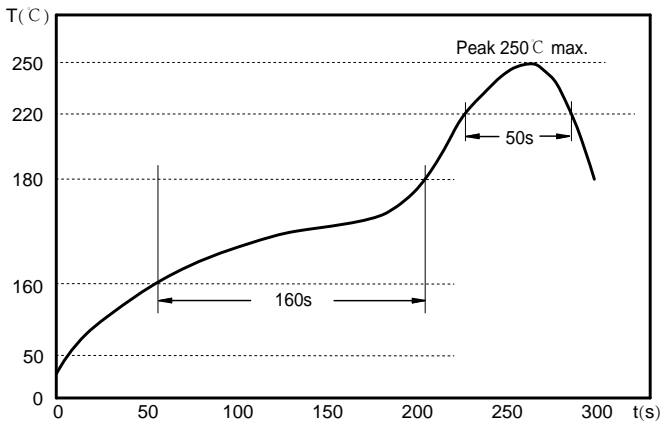
Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:



## Soldering Reflow:



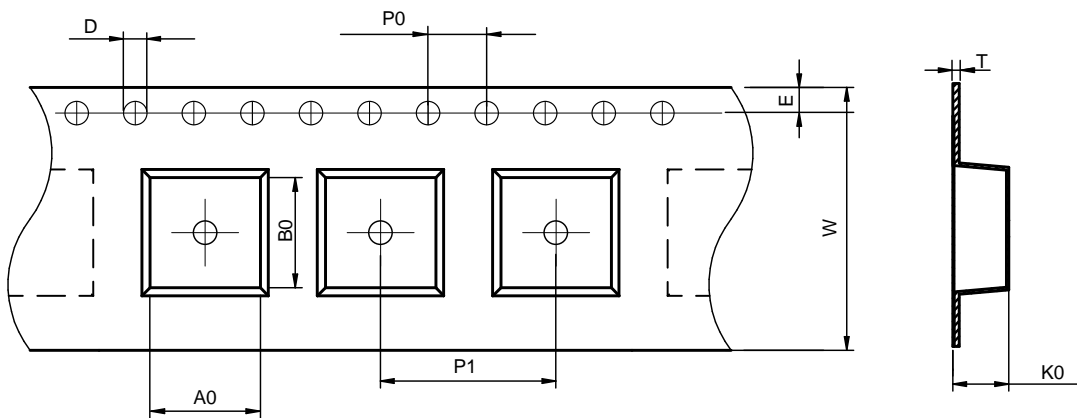
Preheat condition: 160 ~180 °C / 160 sec.

Allowed time above 220 °C : 50 sec.

Max temperature: 250 °C .

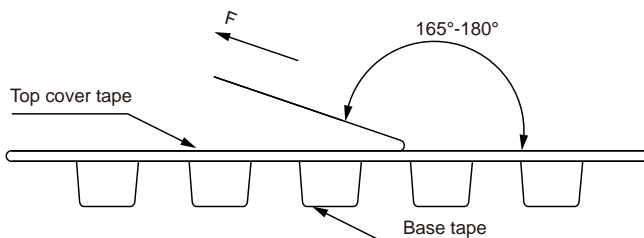
## Packaging Information:

### Tape Dimension :



| Series   | A0 (mm)  | B0 (mm)  | D (mm)   | P0 (mm)  | P1 (mm)   | W (mm)    | K0 (mm)  | E (mm)   | T (mm)    |
|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|-----------|
| NRSE8040 | 9.40±0.1 | 9.40±0.1 | 1.50±0.1 | 4.00±0.1 | 12.00±0.1 | 16.00±0.3 | 4.40±0.1 | 1.75±0.1 | 0.40±0.05 |

### Peel force of top cover tape:

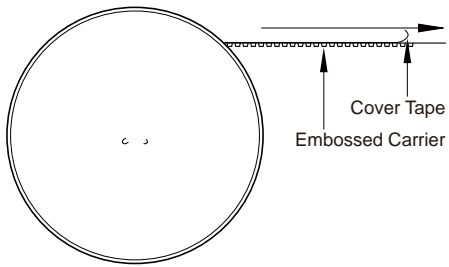


The peel force of top cover tape shall be between 0.03 to 0.98 N

### Product Marking:

|         |                       |
|---------|-----------------------|
| Marking | Printing (Inductance) |
|---------|-----------------------|

Reel Dimension: [mm]



Packaging Quantity: