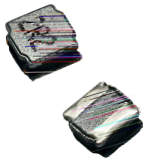


NRSE Series  
SMD Shielded Tiny Power Inductor  
Size 3012



CHARACTERISTICS

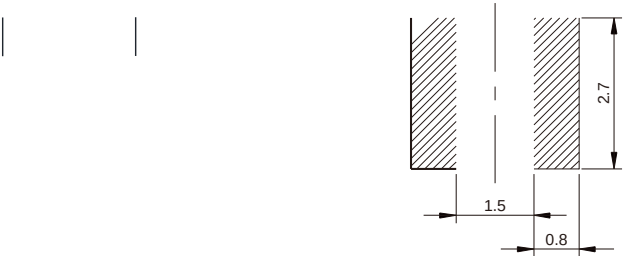
- Magnetic resistance is low.
- 

APPLICATION

- 
- 

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

| Part No       | (μH) | Tolerance | Saturation<br>(A) | (A)  | (mΩ) |
|---------------|------|-----------|-------------------|------|------|
| NRSE3012-R33N | 0.33 | ±30%      | 3.00              | 2.90 | 21   |
| NRSE3012-R47N | 0.47 | ±30%      | 2.20              | 2.20 | 33   |
| NRSE3012-R82N | 0.82 | ±30%      | 2.05              | 2.10 | 40   |
| NRSE3012-1R0N | 1.00 | ±30%      | 1.90              | 2.00 | 48   |
| NRSE3012-1R5N | 1.50 | ±30%      | 1.62              | 1.85 | 55   |
| NRSE3012-1R8N | 1.80 | ±30%      | 1.50              | 1.70 | 68   |
| NRSE3012-2R2M | 2.20 | ±20%      | 1.20              | 1.55 | 75   |
| NRSE3012-3R3M | 3.30 | ±20%      | 1.05              | 1.35 | 100  |
| NRSE3012-4R7M | 4.70 | ±20%      | 0.90              | 1.25 | 120  |
| NRSE3012-5R6M | 5.60 | ±20%      | 0.80              | 1.10 | 160  |
| NRSE3012-6R8M | 6.80 | ±20%      | 0.75              | 1.00 | 190  |
| NRSE3012-100M | 10.0 | ±20%      | 0.60              | 0.89 | 265  |
| NRSE3012-150M | 15.0 | ±20%      | 0.45              | 0.72 | 430  |
| NRSE3012-220M | 22.0 | ±20%      | 0.42              | 0.55 | 630  |
| NRSE3012-270M | 27.0 | ±20%      | 0.35              | 0.45 | 800  |
| NRSE3012-330M | 33.0 | ±20%      | 0.36              | 0.46 | 875  |
| NRSE3012-470M | 47.0 | ±20%      | 0.27              | 0.35 | 1450 |

Saturation Current will cause L to drop approximately 30%  
Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:

INDUCTANCE(

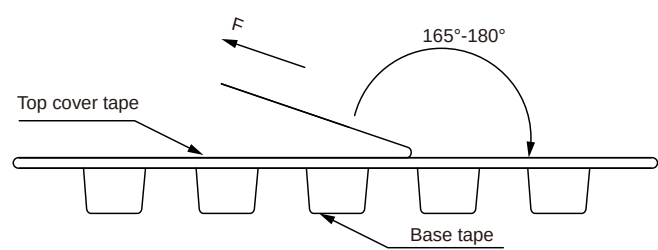
Soldering Reflow:

Packaging Information:

Tape Dimension :

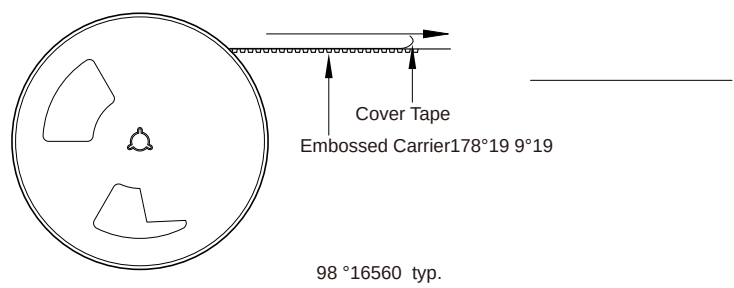
| A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm) | T<br>(mm) |
|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| 3.30±0.1   | 3.30±0.1   | 1.50±0.1  | 4.00±0.1   | 4.00±0.1   | 8.00±0.3  | 1.60±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: