

NRSA Series

SMD Power Inductors For Automotive Size 4018W



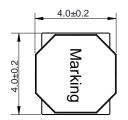
FEATURES

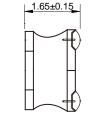
- Magne c shield type wound inductor for power circuits using a ferrite magne c material
- High magne c shield construc on and compa ble with high-density moun ng.
- Larger current and lower Rdc were achieved by op mizing the ferrite core figure.
- Opera ng temperature: -55 to +125°C(including self-temperature rise)
- AEC-Q200 qualified
- Quan ty: 3000pcs

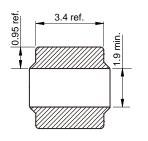
APPLICATION

Smart cockpit

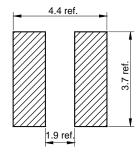
Dimensions: [mm]









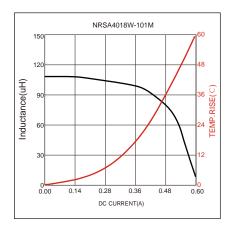


Electrical Properties:

| art o | o @100 z/1 olerance (µH) | | emperature ise urrent ax. (A) | Saturation urrent ax. (A) | esistance ±20% (Ω) | |
|----------------|-----------------------------|------|--|------------------------------------|--------------------------|--|
| NRSA4018W-101M | 100 | ±20% | 0.42 | 0.46 | 1.9 | |

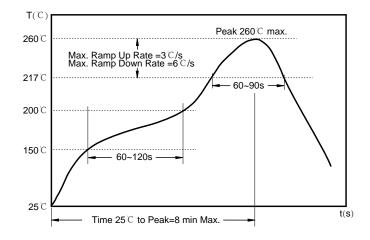
Saturation Current will cause L to drop approximately 30% Temperature Rise Current: The actual value of DC current when the temperature rise is \triangle T=40°C

Typical Electrical Characteristics:





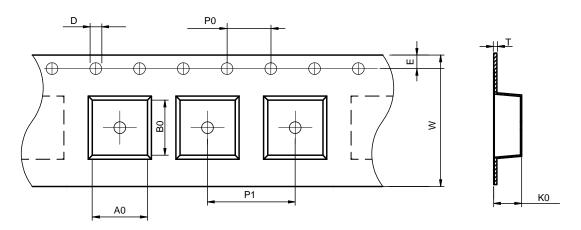
Soldering Reflow:



Preheat condition: 150 ~200°C/ 60~120 sec. Allowed time above 217°C: 60~90 sec. Max temperature: 260°C. Allowed Reflow time: 2x max.

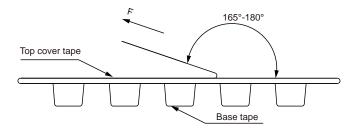
Packaging Information:

Tape Dimension:



| Series | A0 | B0 | D | P0 | P1 | W | K0 | E | T |
|-----------|---------|---------|---------|---------|---------|----------|----------|----------|-----------|
| | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| NRSA4018W | 4.3±0.1 | 4.3±0.1 | 1.5±0.1 | 4.0±0.1 | 8.0±0.1 | 12.0±0.3 | 2.25±0.1 | 1.75±0.1 | 0.30±0.05 |

Peel force of top cover tape:



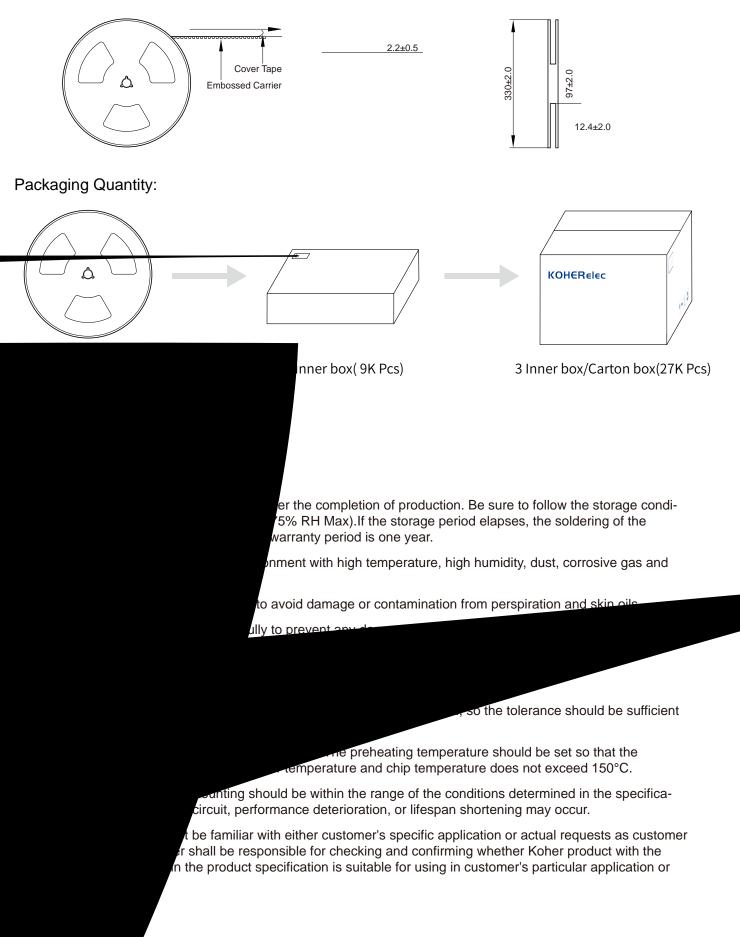
The peel force of top cover tape shall be between 0.3 to 1.17 N

Product Marking:

Marking 101



Reel Dimension: [mm]



A0