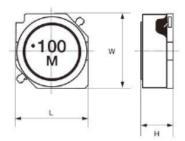
Spec Sheet

SMD Power Inductors (NS series)

NS10165T6R8NNA



Features

- Item Summary 6.8uH±30%, 5.22A, 10.1x10.1x6.5mm
- Lifecycle Stage
 - Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs(500pcs*4reel)

Products characteristics table

Inductance	6.8 uH ± 30 %
Case Size (mm)	10.1x10.1
Rated Current (max)	5.22 A
Saturation Current (max)	6 A
Temperature Rise Current (max)	5.22 A
DC Resistance (typ)	14 mΩ
DC Resistance (max)	16.8 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	20.7 MHz
Operating Temp. Range	-40 to +125 ℃ (Including-self-generated heat)
RoHS2 Compliance	Yes
REACH Compliance	Yes
Soldering	Reflow

External Dimensions

Dimension L	10.1 ±0.3 mm
Dimension W	10.1 ±0.3 mm
Dimension H	6.5 ±0.35 mm

Recommended Land Patterns



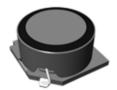
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SMD Power Inductors (NS series)

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Dimension unit: mm unit: inch Length: 10.1 + / - 0.3(0.398 + / - 0.012)Width: 10.1 +/- 0.3 (0.398 + / - 0.012)Height: 6.5 + / - 0.35(0.256 + / - 0.014)

Inductance: 6.8 (test freq at 0.1MHz) uН DC Resistance: 0.014 / 0.0168 ohm (typ/max)

Saturation Current: 6.00 A (max) Temp. rise Current: 5.22 A (max)

> Saturation current typical: 30% reduction from initial L value. Temp rise Current typical: Temperature will rise by 40 deg C

