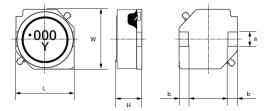
Spec Sheet

SMD Power Inductors (NS series)

NS12565T7R0NN



Features

- Item Summary7.0uH±30%, 5.21A, 12.5x12.5x6.5mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs(500pcs*4reel)

■ Products characteristics table

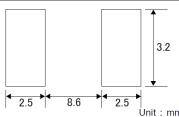
Inductance	7.0 uH ± 30 %
Case Size (mm)	12.5x12.5
Rated Current (max)	5.21 A
Saturation Current (max)	7.93 A
Temperature Rise Current (max)	5.21 A
DC Resistance (max)	19.5 mΩ
DC Resistance (typ)	16.2 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	24.6 MHz
Operating Temp. Range	-40 to +125 ℃ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 15 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

External Dimensions

Dimension L	12.5 ±0.3 mm
Dimension W	12.5 ±0.3 mm
Dimension H	6.5 ±0.35 mm
Dimension a	3.0 ±0.1 mm
Dimension b	2.0 ±0.15 mm

Recommended Land Patterns

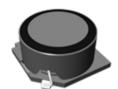




2017.05.03

SMD Power Inductors (NS series)

NS12565T7R0NN



Dimension unit: mm unit: inch

Length: 12.5 +/- 0.3 (0.492 +/- 0.012)

Width: 12.5 +/- 0.3 (0.492 +/- 0.012)

Height: 6.5 +/- 0.35 (0.256 +/- 0.014)

Inductance: 7.0 uH (test freq at 0.1MHz)

DC Resistance: 0.0162 / 0.01944 ohm (typ / max)

Saturation Current: 7.93 A (max) Temp. rise Current: 5.21 A (max)

Saturation current typical: 30% reduction from initial L value.

Temp rise Current typical: Temperature will rise by 40 deg C

