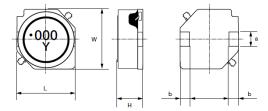
Spec Sheet

SMD Power Inductors (NS series)

NS12575T3R9NN



Features

- Item Summary
 3.9uH±30%, 7.38A, 12.5x12.5x7.5mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs(500pcs*4reel)

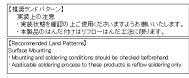
Products characteristics table

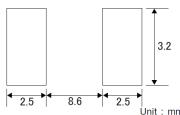
Inductance	3.9 uH ± 30 %
Case Size (mm)	12.5x12.5
Rated Current (max)	7.38 A
Saturation Current (max)	12.52 A
Temperature Rise Current (max)	7.38 A
DC Resistance (max)	11.9 mΩ
DC Resistance (typ)	9.9 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	41.7 MHz
Operating Temp. Range	-40 to +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	7.5 ±0.35 mm
Dimension a	3.0 ±0.1 mm
Dimension b	2.0 ±0.15 mm

Recommended Land Patterns

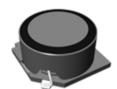




2017.05.03

SMD Power Inductors (NS series)

NS12575T3R9NN



Dimension unit: mm unit: inch

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

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

Height: 7.5 +/- 0.35 (0.295 +/- 0.014)

Inductance: 3.9 uH (test freq at 0.1MHz)
DC Resistance: 0.0099 / 0.01188 ohm (typ/max)

Saturation Current: 12.52 A (max) Temp. rise Current: 7.38 A (max)

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

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

