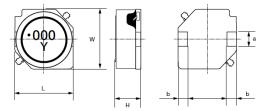
Spec Sheet

SMD Power Inductors (NS series)

NS10165T2R2NNA



Features

- Item Summary 2.2uH±30%, 7.32A, 10.1x10.1x6.5mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs(500pcs*4reel)

■ Products characteristics table

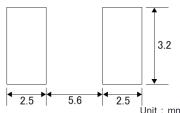
Inductance	2.2 uH ± 30 %
Case Size (mm)	10.1x10.1
Rated Current (max)	7.32 A
Saturation Current (max)	10.8 A
Temperature Rise Current (max)	7.32 A
DC Resistance (max)	8.9 mΩ
DC Resistance (typ)	7.4 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	63 MHz
Operating Temp. Range	-40 to +125 ℃ (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	10.1 ±0.3 mm
Dimension W	10.1 ±0.3 mm
Dimension H	6.5 ±0.35 mm
Dimension a	2.8 ±0.1 mm
Dimension b	2.0 ±0.15 mm

Recommended Land Patterns





2017.04.30

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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: 2.2 uH (test freq at 0.1MHz)
DC Resistance: 0.0074 / 0.00888 ohm (typ/max)

Saturation Current: 10.80 A (max) Temp. rise Current: 7.32 A (max)

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

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

