

## SMD Power Inductors for Automotive / Industrial Applications (NS series)

### NS10145T1R0NNV



#### ■ Features

- Item Summary  
1.0uH±30%, 8.9A, 10.1x10.1x4.5mm
- Lifecycle Stage  
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs(500pcs\*4reel)

#### ■ Products characteristics table

Inductance	1.0 uH ± 30 %
Case Size (mm)	10.1x10.1
Rated Current (max)	8.9 A
Saturation Current (max)	12.54 A
Temperature Rise Current (max)	8.9 A
DC Resistance (max)	5.9 mΩ
DC Resistance (typ)	4.9 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	116 MHz
Operating Temp. Range	-40 to +125 °C (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	4.5 ±0.35 mm
Dimension a	2.8 ±0.1 mm
Dimension b	2.0 ±0.15 mm

#### ■ Recommended Land Patterns

【推奨ランドパターン】  
実装上の注意  
・実装状態を確認の上ご使用くださいますようお願いいたします。  
・本製品のはんだ付けはリフローはんだ工法に限ります。

【Recommended Land Patterns】  
Surface Mounting  
・Mounting and soldering conditions should be checked beforehand.  
・Applicable soldering process to these products is reflow soldering only.

