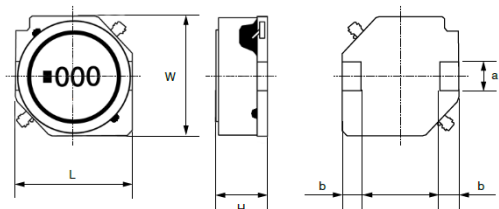


## SMD Power Inductors for Automotive / Industrial Applications (NS series)

### NS10165T4R7NNV



#### ■ Features

- Item Summary  
4.7uH±30%, 5.88A, 10.1x10.1x6.5mm
- Lifecycle Stage  
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs(500pcs\*4reel)

#### ■ Products characteristics table

Inductance	4.7 uH ± 30 %
Case Size (mm)	10.1x10.1
Rated Current (max)	5.88 A
Saturation Current (max)	7.7 A
Temperature Rise Current (max)	5.88 A
DC Resistance (max)	13.5 mΩ
DC Resistance (typ)	11.2 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	36.8 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	6.5 ±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せうお願いたします。  
・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.

