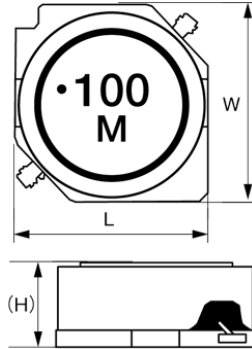


## SMD Power Inductors (NS series)

## NS10165T6R8NNA



## ■ Features

- Item Summary  
6.8  $\mu$ H ( $\pm 30\%$ ), 6A, 5.22A
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping 2000pcs(500pcs\*4reel)

## ■ Products characteristics table

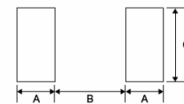
CaseSize (EIA/JIS)	-/10165
Inductance	6.8 $\mu$ H ( $\pm 30\%$ )
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	6A
Rated Current -Temperature Rise Current	5.22A
DC Resistance (max)	0.0168 $\Omega$
Avg. of DC.Resistance	0.014 $\Omega$
Temperature Range	-40°C to 125°C
Self-resonant Frequency (min)	20.7MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

## ■ External Dimensions

L	10.1mm $\pm 0.3$
W	10.1mm $\pm 0.3$
H	6.5mm $\pm 0.35$

## ■ 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よお願いいたします。 ・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.



SMD Power Inductors (NS series)			
Type	A	B	C
NS 10145	2.5	5.6	3.2
NS 10155	2.5	5.6	3.2
NS 10165	2.5	5.6	3.2
NS 12555	2.5	8.6	3.2
NS 12565	2.5	8.6	3.2
NS 12575	2.5	8.6	3.2

unit:mm

2014.03.06

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.  
TAIYO YUDEN reserves the right to make change to the Date at any time without notice.  
Before making final selection, please check product specification.