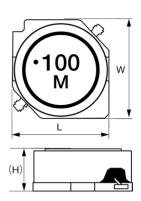
## **Spec Sheet**

# SMD Power Inductors (NS series)

## NS10165T6R8NNA



#### Features

- Item Summary
  6.8 μH(±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(±30%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	6A
Rated Current -Temperature Rise Current	5.22A
DC Resistance (max)	0.0168Ω
Avg. of DC.Resistance	0.014Ω
Temperature Range	-40℃ to 125℃
Self-resonant Frequency (min)	20.7MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

#### External Dimensions

L	10.1mm ±0.3
W	10.1mm ±0.3
Н	6.5mm ±0.35

### Recommended Land Patterns



Type	A	В	С
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

2013.12.03

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.