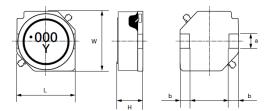
### **Spec Sheet**

# SMD Power Inductors (NS series)

## NS12555T681MN



#### Features

- Item Summary 680uH±20%, 0.6A, 12.5x12.5x5.5mm
- Lifecycle Stage
   Mass Production
- Standard packaging quantity (minimum)
   Taping Embossed 2000pcs(500pcs\*4reel)

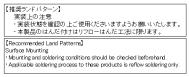
#### ■ Products characteristics table

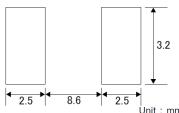
Inductance	680 uH ± 20 %
Case Size (mm)	12.5x12.5
Rated Current (max)	0.6 A
Saturation Current (max)	0.6 A
Temperature Rise Current (max)	0.72 A
DC Resistance (max)	0.912 Ω
DC Resistance (typ)	0.76 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	2.5 MHz
Operating Temp. Range	-40 to +125 ℃ (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	12.5 ±0.3 mm
Dimension W	12.5 ±0.3 mm
Dimension H	5.5 ±0.35 mm
Dimension a	3.0 ±0.1 mm
Dimension b	2.0 ±0.15 mm

#### Recommended Land Patterns





2017.05.02

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.

## SMD Power Inductors (NS series)

#### NS12555T681MN



Dimension unit: mm unit: inch

Length: 12.5 +/- 0.3 (0.492 +/- 0.012)

Width: 12.5 +/- 0.3 (0.492 +/- 0.012)

Height: 5.5 +/- 0.35 (0.217 +/- 0.014)

Inductance: 680 uH (test freq at 0.1MHz)

DC Resistance: 0.76 / 0.912 ohm (typ / max)

Saturation Current: 0.60 A (max) Temp. rise Current: 0.72 A (max)

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

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

