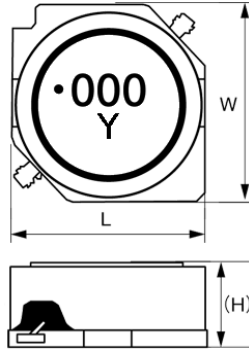


# SMD Power Inductors (NS series)

## NS12565T101MN



### ■ Features

- Item Summary  
100  $\mu$ H( $\pm 20\%$ ), 2.23A, 1.81A
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping 2000pcs(500pcs\*4reel)

### ■ Products characteristics table

CaseSize (EIA/JIS)	-/125125
Inductance	100 $\mu$ H( $\pm 20\%$ )
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	2.23A
Rated Current -Temperature Rise Current	1.81A
DC Resistance (max)	0.1476 $\Omega$
Avg. of DC.Resistance	0.123 $\Omega$
Self-resonant Frequency (min)	5.5MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

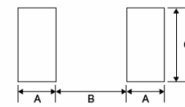
### ■ External Dimensions

L	12.5mm $\pm 0.3$
W	12.5mm $\pm 0.3$
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	2.6	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

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.

2015.03.09

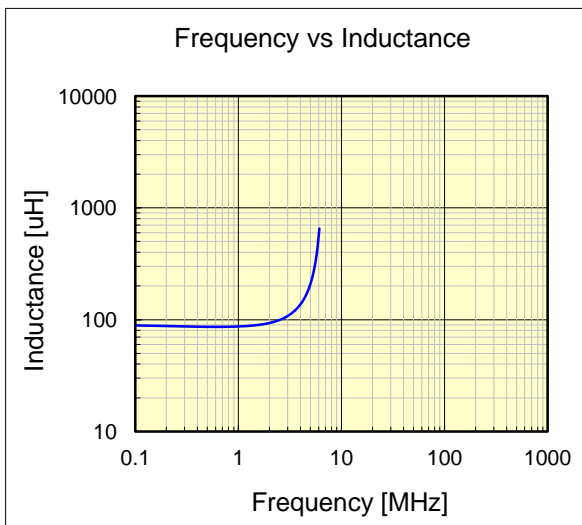
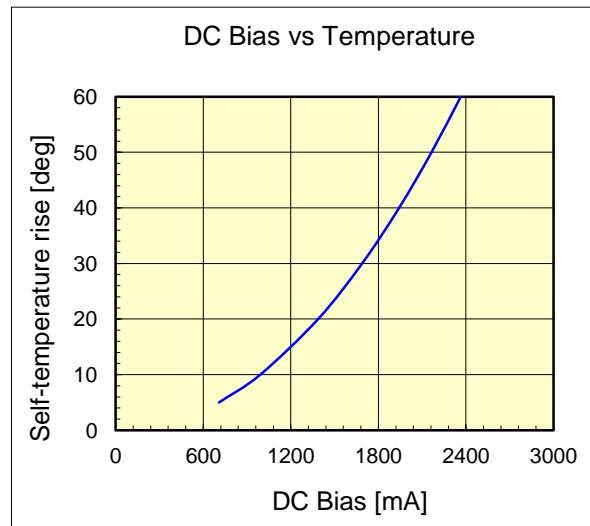
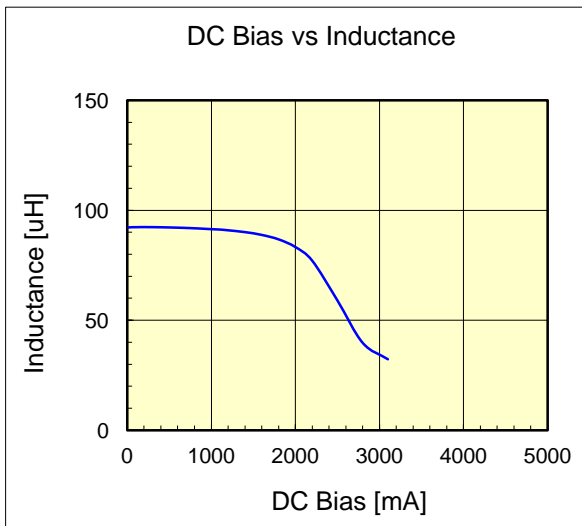
SMD Power Inductors (NS series)

NS12565T101MN



Dimension	unit : mm	unit : inch
Length :	12.5 +/- 0.3	( 0.492 +/- 0.012 )
Width :	12.5 +/- 0.3	( 0.492 +/- 0.012 )
Height :	6.5 +/- 0.35	( 0.256 +/- 0.014 )

Inductance :	100	uH ( test freq at 0.1MHz )
DC Resistance :	0.123 / 0.1476	ohm ( typ / max )
Saturation Current :	2.23	A ( max )
Temp. rise Current :	1.81	A ( max )
Saturation current typical : 30% reduction from initial L value.		
Temp rise Current typical : Temperature will rise by 40 deg C		



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