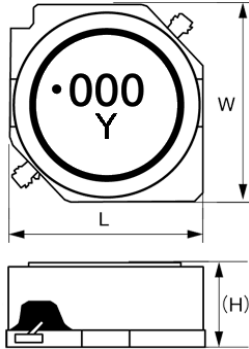


# SMD Power Inductors (NS series)

## NS10145T1R0NNA



### ■ Features

- Item Summary  
1.0  $\mu$ H ( $\pm$ 30%), 12.54A, 8.9A
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping 2000pcs(500pcs\*4reel)

### ■ Products characteristics table

CaseSize (EIA/JIS)	-/101101
Inductance	1.0 $\mu$ H ( $\pm$ 30%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	12.54A
Rated Current -Temperature Rise Current	8.9A
DC Resistance (max)	0.0058 $\Omega$
Avg. of DC.Resistance	0.0049 $\Omega$
Self-resonant Frequency (min)	116MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

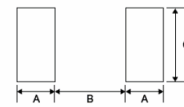
### ■ External Dimensions

L	10.1mm $\pm$ 0.3
W	10.1mm $\pm$ 0.3
H	4.5mm $\pm$ 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。また、ご購入の際は、  
・本製品のはんだ付けはリフローはんだ工法にのみ対応しています。

【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

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.

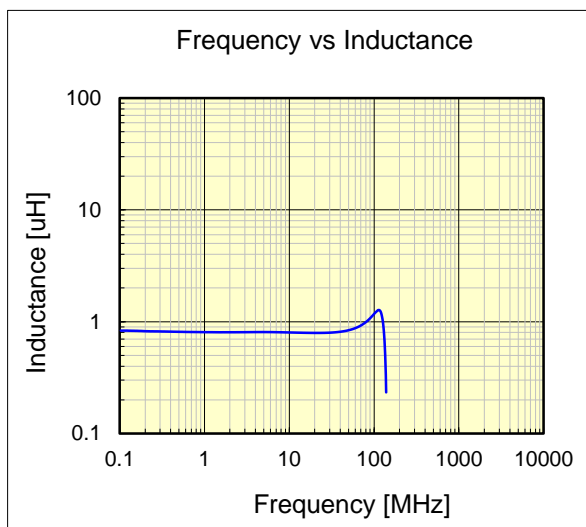
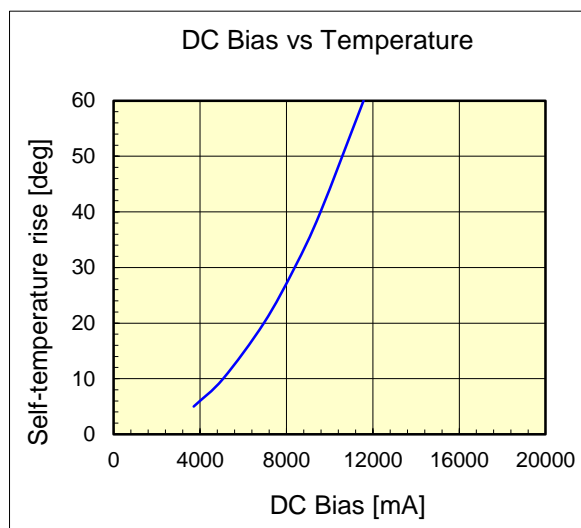
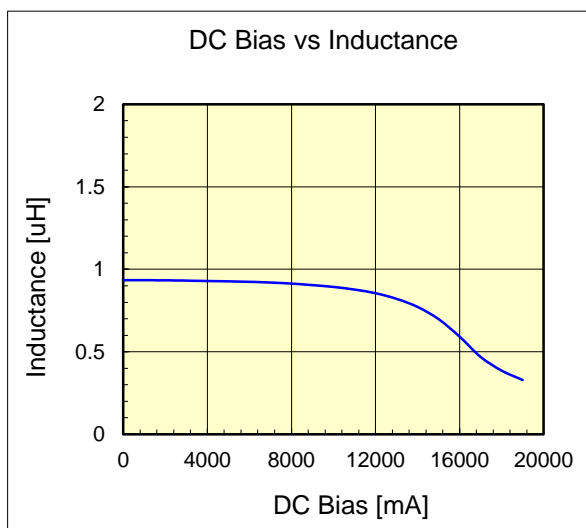
SMD Power Inductors (NS series)

NS10145T1R0NNA



Dimension	unit : mm	unit : inch
Length :	10.1 +/- 0.3	( 0.398 +/- 0.012 )
Width :	10.1 +/- 0.3	( 0.398 +/- 0.012 )
Height :	4.5 +/- 0.35	( 0.177 +/- 0.014 )

Inductance :	1.0	$\mu$ H	( test freq at 0.1MHz )
DC Resistance :	0.0049 / 0.00588	ohm	( typ / max )
Saturation Current :	12.54	A	( max )
Temp. rise Current :	8.90	A	( max )
Saturation current typical : 30% reduction from initial L value.			
Temp rise Current typical : Temperature will rise by 40 deg C			



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