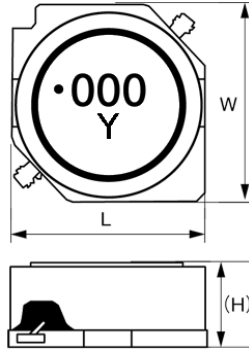


# SMD Power Inductors (NS series)

## NS12575T100MN



### ■ Features

- Item Summary  
10  $\mu$ H( $\pm$ 20%), 7.65A, 5.55A
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping 2000pcs(500pcs\*4reel)

### ■ Products characteristics table

CaseSize (EIA/JIS)	-/125125
Inductance	10 $\mu$ H( $\pm$ 20%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	7.65A
Rated Current -Temperature Rise Current	5.55A
DC Resistance (max)	0.01872 $\Omega$
Avg. of DC.Resistance	0.0156 $\Omega$
Self-resonant Frequency (min)	21.5MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

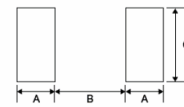
### ■ External Dimensions

L	12.5mm $\pm$ 0.3
W	12.5mm $\pm$ 0.3
H	7.5mm $\pm$ 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.



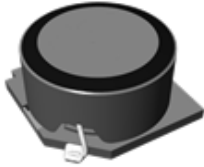
SMD Power Inductors (NS series)

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

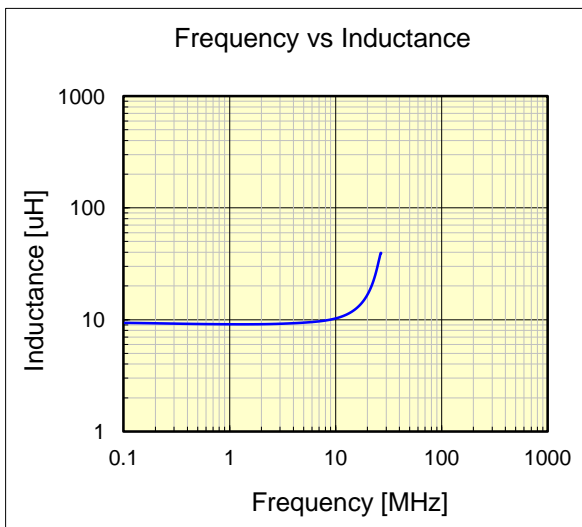
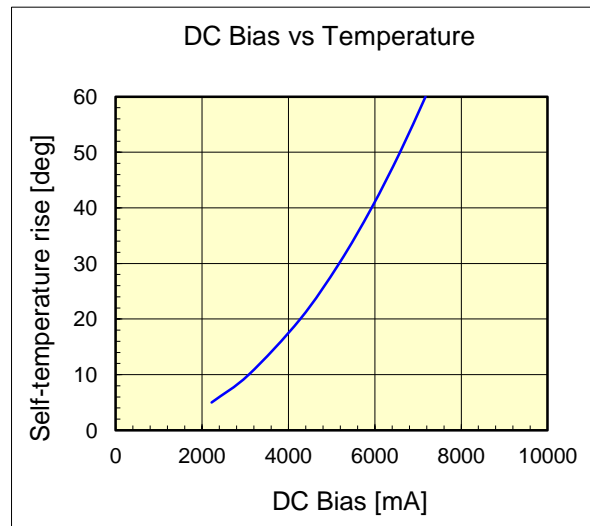
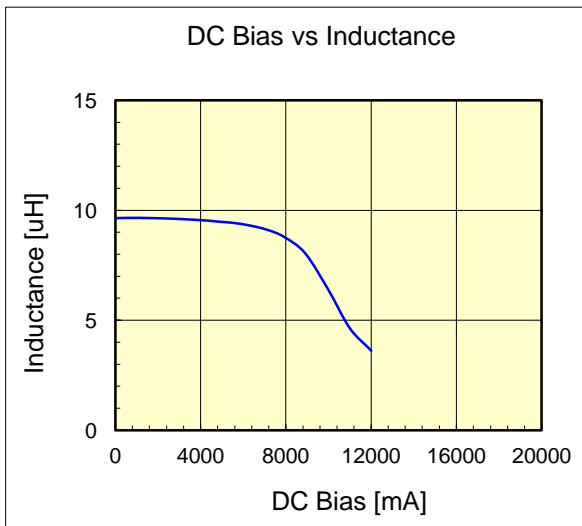
SMD Power Inductors (NS series)

NS12575T100MN



Dimension	unit : mm	unit : inch
Length :	12.5 +/- 0.3	( 0.492 +/- 0.012 )
Width :	12.5 +/- 0.3	( 0.492 +/- 0.012 )
Height :	7.5 +/- 0.35	( 0.295 +/- 0.014 )

Inductance :	10	uH ( test freq at 0.1MHz )
DC Resistance :	0.0156 / 0.01872	ohm ( typ / max )
Saturation Current :	7.65	A ( max )
Temp. rise Current :	5.55	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.