

# SMD Power Inductors (NS series)

## NS12555T100MN



### ■ Features

- Item Summary  
10 μH(±20%), 4.73A, 5.04A
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping 2000pcs(500pcs\*4reel)

### ■ Products characteristics table

CaseSize (EIA/JIS)	-/12555
Inductance	10 μH(±20%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	4.73A
Rated Current -Temperature Rise Current	5.04A
DC Resistance (max)	0.021 Ω
Avg. of DC.Resistance	0.0175 Ω
Temperature Range	-40°C to 125°C
Self-resonant Frequency (min)	21.8MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

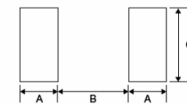
### ■ External Dimensions

L	12.5mm ±0.3
W	12.5mm ±0.3
H	5.5mm ±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.



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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.