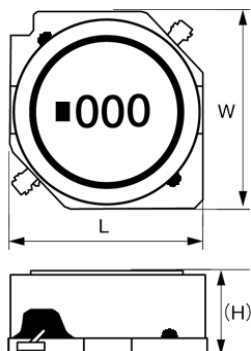


SMD Power Inductors for Automotive / Industrial Applications (NS series)

NS12565T100MNV



■ Features

- Item Summary
10 μ H($\pm 20\%$), 6A, 4.75A
- Lifecycle Stage
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Taping 2000pcs(500pcs*4reel)

■ Products characteristics table

CaseSize (EIA/JIS)	-/125125
Inductance	10 μ H($\pm 20\%$)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	6A
Rated Current -Temperature Rise Current	4.75A
DC Resistance (max)	0.02388 Ω
Avg. of DC.Resistance	0.0199 Ω
Self-resonant Frequency (min)	15.8MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	12.5mm ± 0.3
W	12.5mm ± 0.3
H	6.5mm ± 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ようお願いいたします。
 ・本製品のはんだ付けはリフローはんだ工法に限りします。

【Recommended Land Patterns】
 Surface Mounting
 ・Mounting and soldering conditions should be checked beforehand.
 ・Applicable soldering process to these products is reflow soldering only.

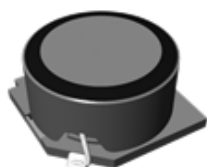


SMD Power Inductors (NS series)			
Type	A	B	C
NS 10145	2.5	5.6	3.2
NS 10155	2.6	5.6	3.2
NS 10165	2.5	5.6	3.2
NS 12555	2.5	8.6	3.2
NS 12565	2.5	8.6	3.2
NS 12575	2.5	8.6	3.2

unit:mm

SMD Power Inductors for Industrial / Automotive Comfort and Safety Applications
(NS series)(AEC-Q200 qualified)

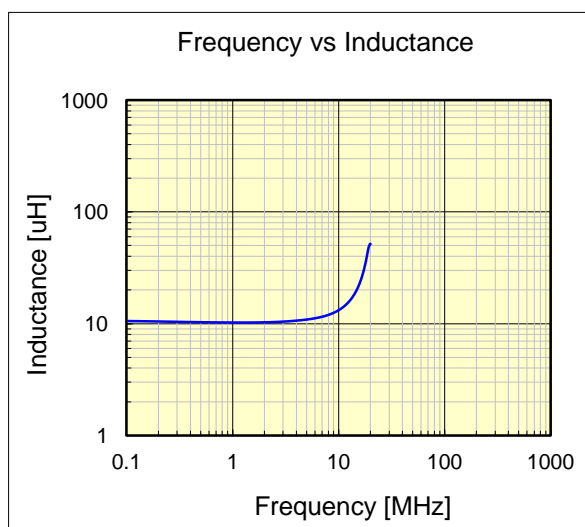
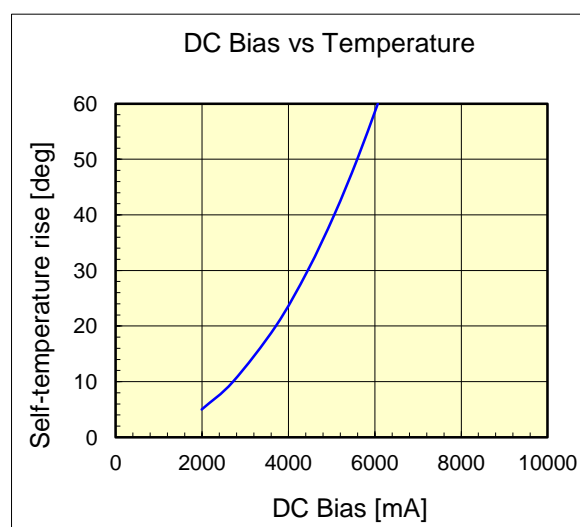
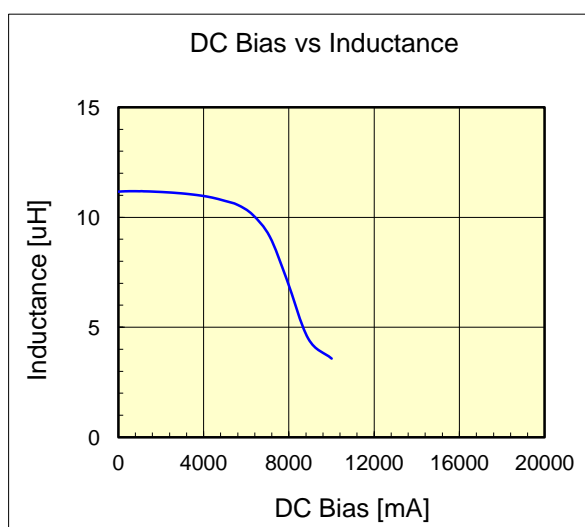
NS12565T100MNV



AEC-Q200 qualified

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 :	10	uH	(test freq at 0.1MHz)
DC Resistance :	0.0199	/	0.02388 ohm (typ / max)
Saturation Current :	6.00	A (max)	
Temp. rise Current :	4.75	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.

The products are tested based on the test conditions and methods defined in AEC-Q200. Please consult with TAIYO YUDEN for the details of the product specification and AEC-Q200 test results, etc., and please review and approve TAIYO YUDEN's product specification before ordering.