

Inductors

NS10145T331MNA



■ Features

- Item Summary
330uH±20%, 0.64A, 10.1x10.1x4.5mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs(500pcs*4reel)

■ Products characteristics table

Inductance	330 uH ± 20 %
Case Size (mm)	10.1x10.1
Rated Current (max)	0.64 A
Saturation Current (max)	0.71 A ($\Delta L=30\%$)
Temperature Rise Current (max)	0.64 A ($\Delta T=40^{\circ}\text{C}$)
DC Resistance (max)	0.84 Ω
DC Resistance (typ)	0.7 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	3.3 MHz
Operating Temp. Range	-40 to +125 $^{\circ}\text{C}$ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 15 %
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	10.1 ±0.3 mm
Dimension W	10.1 ±0.3 mm
Dimension H	4.5 ±0.35 mm
Dimension a	2.8 ±0.1 mm
Dimension b	2.0 ±0.15 mm

■ Recommended Land Patterns

【推奨のランドパターン】
 両面テープ
 ・両面テープの厚さは0.1mm以内とする。
 ・両面テープの接着剤は、両面テープの接着剤に適合するものを使用する。

【Recommended Land Pattern】
 Surface Mounting
 ・Flux is not to be used in the reflow soldering process.
 ・Apply the soldering process to these products in reflow soldering only.



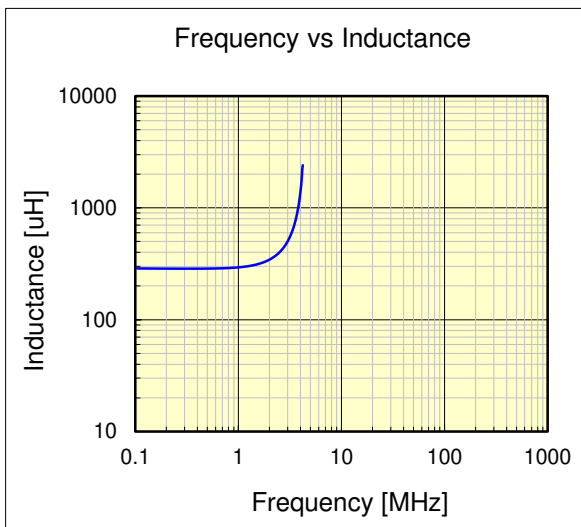
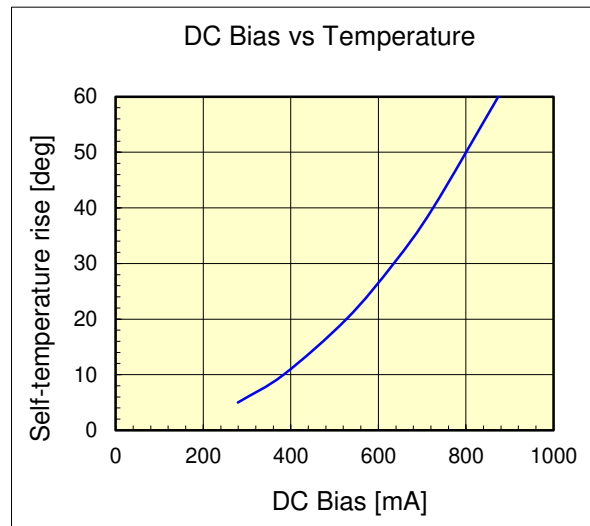
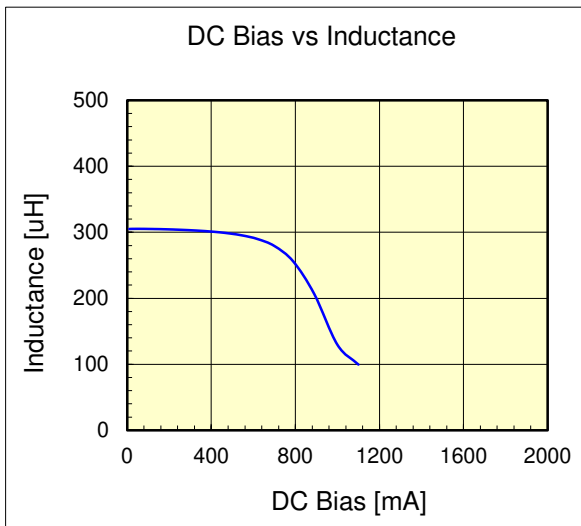
SMD Power Inductors (NS series)

NS10145T331MNA



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 :	330	uH	(test freq at 0.1MHz)
DC Resistance :	0.7 / 0.84	ohm	(typ / max)
Saturation Current :	0.71	A	(max)
Temp. rise Current :	0.64	A	(max)
Saturation current typical : 30% reduction from initial L value.			
Temp rise Current typical : Temperature will rise by 40 deg C			



Please read this notice before using the TAIYO YUDEN products.



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Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).
When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.
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