

Inductors

NS10145T151MNA



■ Features

- Item Summary
150uH±20%, 0.94A, 10.1x10.1x4.5mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs(500pcs*4reel)

■ Products characteristics table

Inductance	150 uH ± 20 %
Case Size (mm)	10.1x10.1
Rated Current (max)	0.94 A
Saturation Current (max)	1.11 A ($\Delta L=30\%$)
Temperature Rise Current (max)	0.94 A ($\Delta T=40^{\circ}\text{C}$)
DC Resistance (max)	0.41 Ω
DC Resistance (typ)	0.341 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	4.7 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

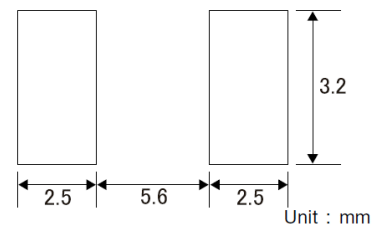
■ External Dimensions

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

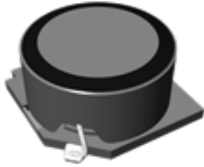
【推奨ランドパターン】
実装上の注意
・実装状態を確認の上ご使用くださいようお願いいたします。
・本製品のはんだ付けはリフローはんだ工法に限ります。

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



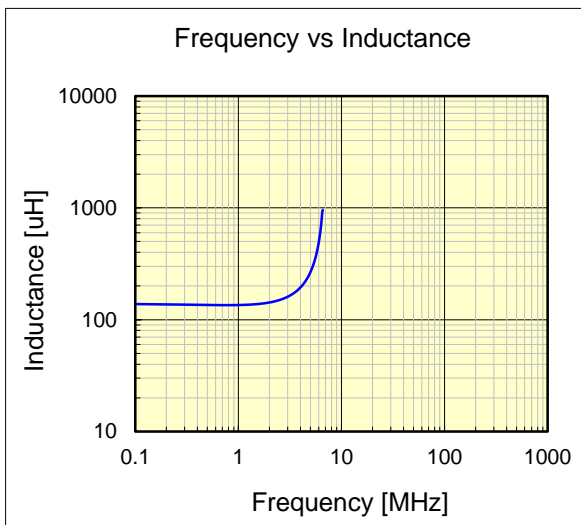
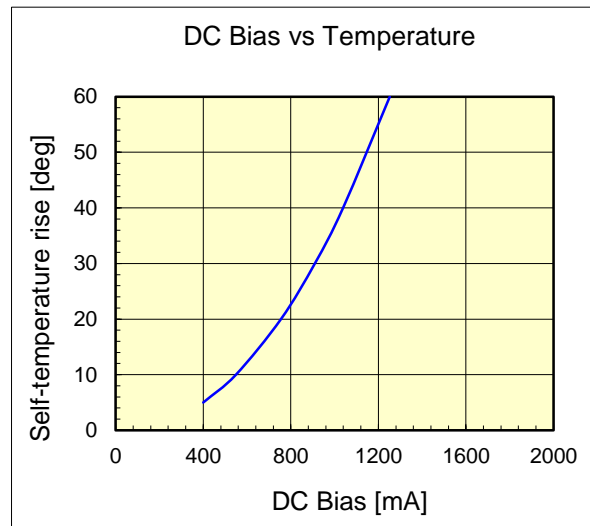
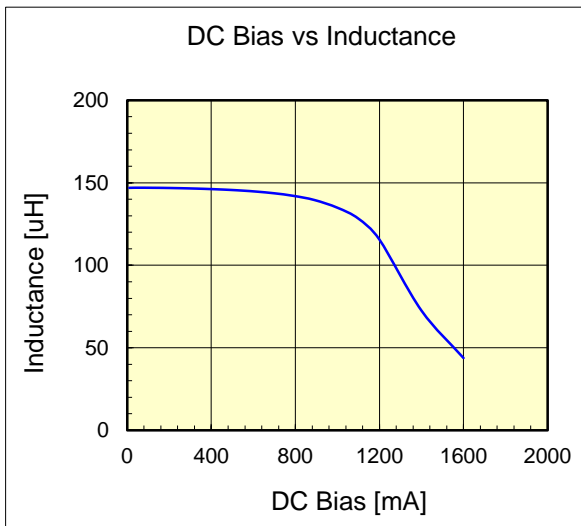
SMD Power Inductors (NS series)

NS10145T151MNA



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 :	150	uH (test freq at 0.1MHz)
DC Resistance :	0.341 / 0.4092	ohm (typ / max)
Saturation Current :	1.11	A (max)
Temp. rise Current :	0.94	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.



REMINDERS

- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our 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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