

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)	$\pm 15\%$
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

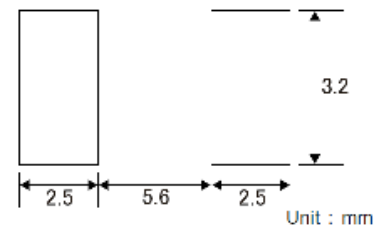
■ External Dimensions

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
 ・両面テープは、必ずしも必要ではありません。
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【Recommended Land Pattern】
 Surface Mounting
 ・If a reflow soldering method is used, the reflow temperature should be 260°C or lower.
 ・Apply the soldering process to these products in reflow soldering.



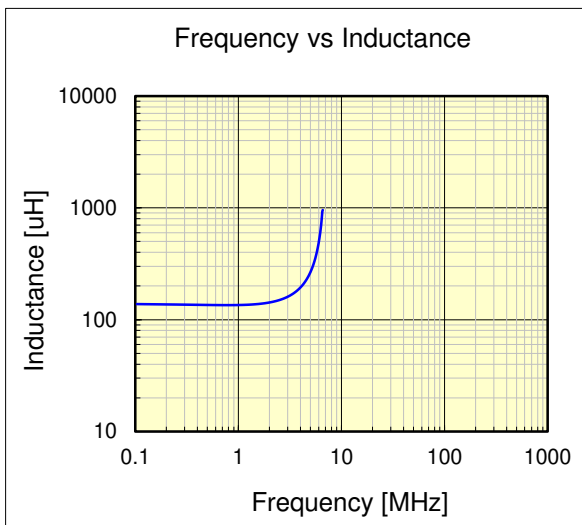
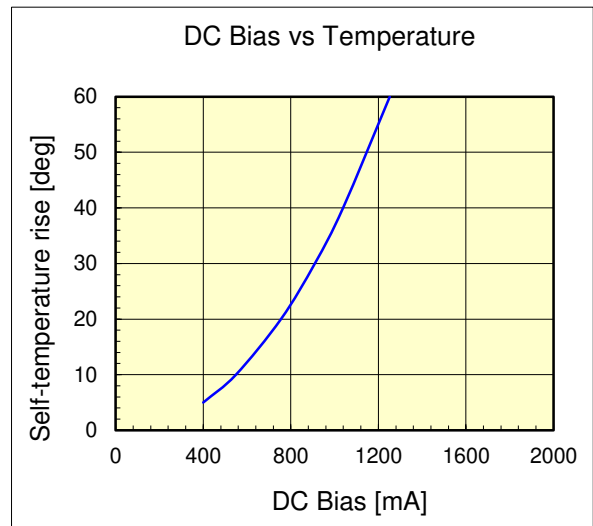
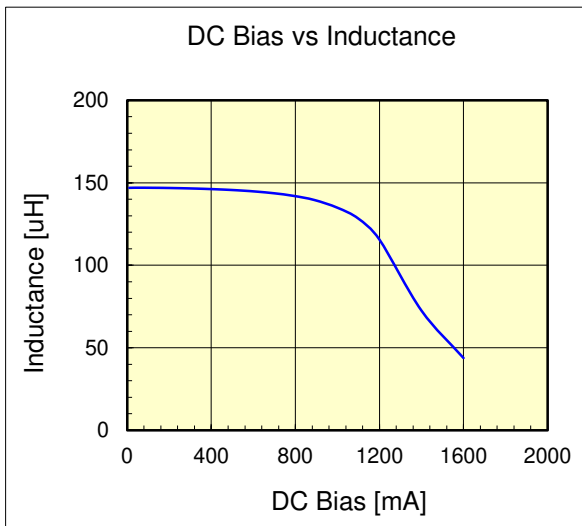
SMD Power Inductors (NS series)

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.



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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).
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