

Inductors

NS10155T150MNA



■ Features

- Item Summary
15uH±20%, 3.65A, 10.1x10.1x5.5mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs(500pcs*4reel)

■ Products characteristics table

Inductance	15 uH ± 20 %
Case Size (mm)	10.1x10.1
Rated Current (max)	3.65 A
Saturation Current (max)	4.03 A (ΔL=30%)
Temperature Rise Current (max)	3.65 A (ΔT=40°C)
DC Resistance (max)	34.1 mΩ
DC Resistance (typ)	28.4 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	15.5 MHz
Operating Temp. Range	-40 to +125 °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

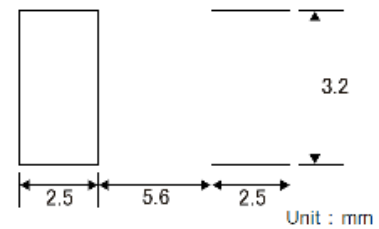
■ External Dimensions

Dimension L	10.1 ±0.3 mm
Dimension W	10.1 ±0.3 mm
Dimension H	5.5 ±0.35 mm
Dimension a	2.8 ±0.1 mm
Dimension b	2.0 ±0.15 mm

■ Recommended Land Patterns

【注意事項】
 1. 本製品は、表面実装用です。
 2. 本製品の寸法は、公差範囲内にあり、公差範囲外の場合は、お問い合わせください。

【Recommended Land Pattern】
 ・Flux is not to be kept on the inductor after reflow soldering.
 ・Apply the soldering process to these products in reflow soldering only.



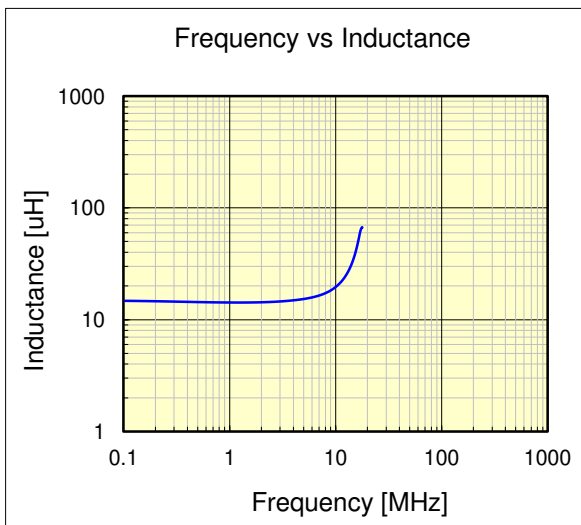
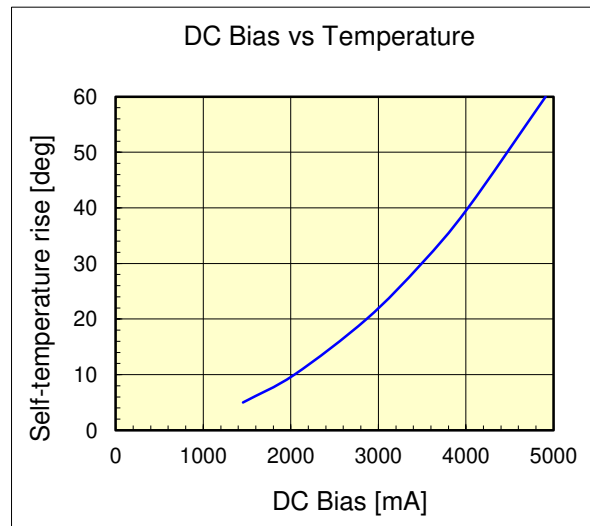
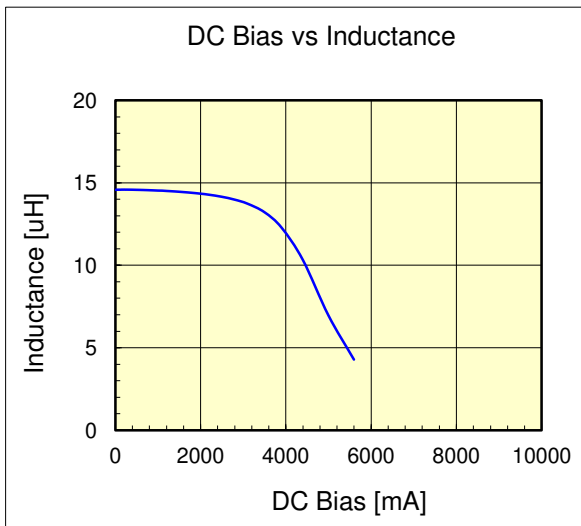
SMD Power Inductors (NS series)

NS10155T150MNA



Dimension	unit : mm	unit : inch
Length :	10.1 +/- 0.3	(0.398 +/- 0.012)
Width :	10.1 +/- 0.3	(0.398 +/- 0.012)
Height :	5.5 +/- 0.35	(0.217 +/- 0.014)

Inductance :	15	uH	(test freq at 0.1MHz)
DC Resistance :	0.0284 / 0.03408	ohm	(typ / max)
Saturation Current :	4.03	A	(max)
Temp. rise Current :	3.65	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.

Please read this notice before using the TAIYO YUDEN products.



REMINDERS

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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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