

Inductors

NS12565T470MN



■ Features

- Item Summary
47uH±20%, 2.78A, 12.5x12.5x6.5mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs(500pcs*4reel)

■ Products characteristics table

Inductance	47 uH ± 20 %
Case Size (mm)	12.5x12.5
Rated Current (max)	2.78 A
Saturation Current (max)	3.34 A ($\Delta L=30\%$)
Temperature Rise Current (max)	2.78 A ($\Delta T=40^{\circ}\text{C}$)
DC Resistance (max)	69 m Ω
DC Resistance (typ)	57.5 m Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	7.2 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	12.5 ±0.3 mm
Dimension W	12.5 ±0.3 mm
Dimension H	6.5 ±0.35 mm
Dimension a	3.0 ±0.1 mm
Dimension b	2.0 ±0.15 mm

■ Recommended Land Patterns

【注意事項】
 ・本製品は、表面実装用です。
 ・実装の際は、必ず実装条件を参照してください。
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【Dimensional Land Pattern】
 ・This is the recommended land pattern for reflow soldering.
 ・Apply the soldering process to these products in reflow soldering only.



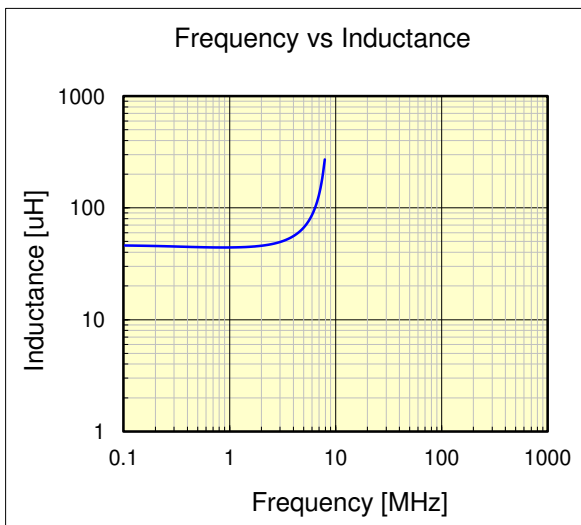
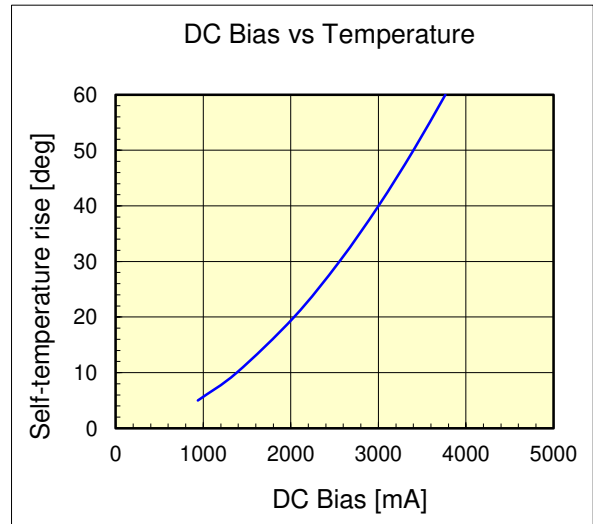
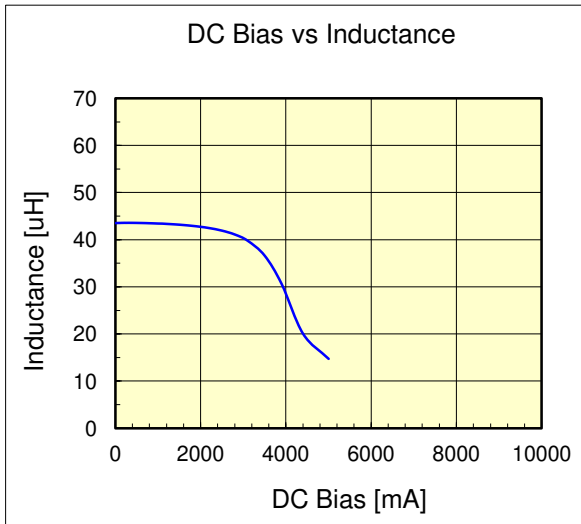
SMD Power Inductors (NS series)

NS12565T470MN



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 :	47	μ H (test freq at 0.1MHz)
DC Resistance :	0.0575 / 0.069	ohm (typ / max)
Saturation Current :	3.34	A (max)
Temp. rise Current :	2.78	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

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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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