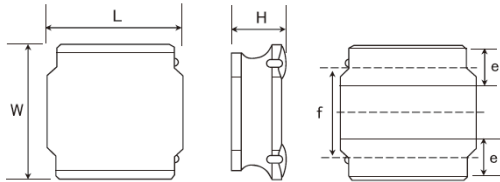


Inductors

NRS3015T220MNGH



Features

- Item Summary
22uH±20%, 0.47A, 3.0x3.0x1.5mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs

Products characteristics table

Inductance	22 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	0.47 A
Saturation Current (max)	0.47 A (ΔL=30%)
Saturation Current (typ)	0.54 A (ΔL=30%)
Temperature Rise Current (max)	0.47 A (ΔT=40°C)
Temperature Rise Current (typ)	0.53 A (ΔT=40°C)
DC Resistance (max)	0.624 Ω
DC Resistance (typ)	0.52 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	20 MHz
Operating Temp. Range	-25 to +120 °C (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 20 %
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

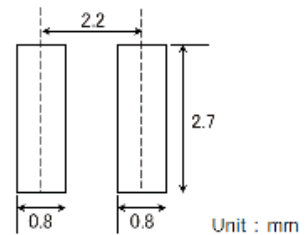
External Dimensions

Dimension L	3.0 ± 0.1 mm
Dimension W	3.0 ± 0.1 mm
Dimension H	Max 1.5 mm
Dimension e	0.9 ± 0.2 mm
Dimension f	1.9 ± 0.2 mm

Recommended Land Patterns

【推奨のランドパターン】
 二層基板の場合
 ・両面に銅箔を形成し、銅箔の厚さを0.03mm以上0.05mm以下とする。
 ・銅箔の表面を平滑に仕上げ、銅箔の表面を平滑に仕上げ、銅箔の表面を平滑に仕上げ。

【Printed Circuit Board Pattern】
 Surface Mounting
 ・If a printed circuit board is used, it is recommended to use a two-layer board.
 ・Apply the soldering process to these products in reflow soldering.



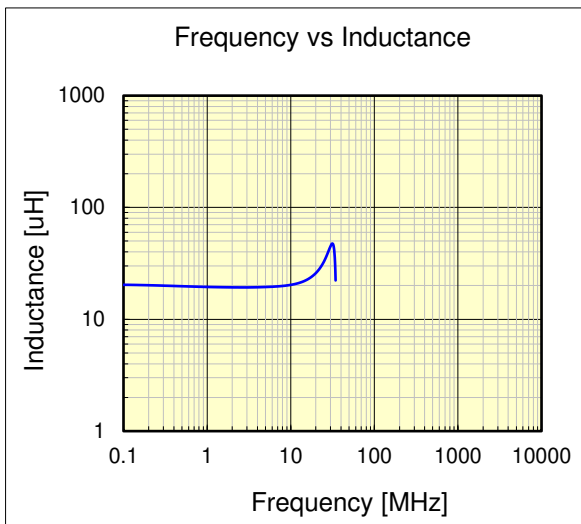
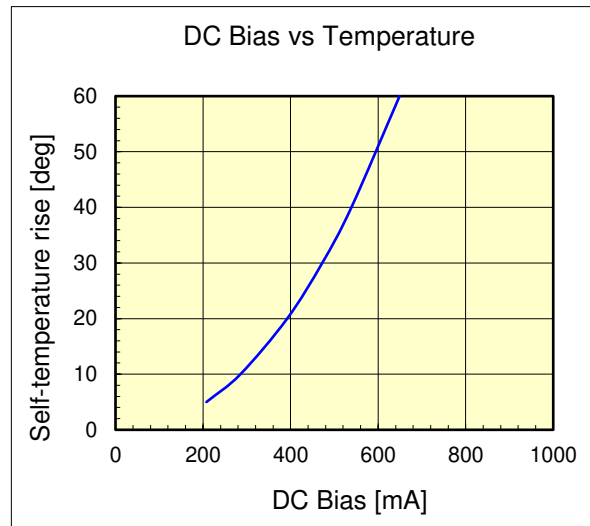
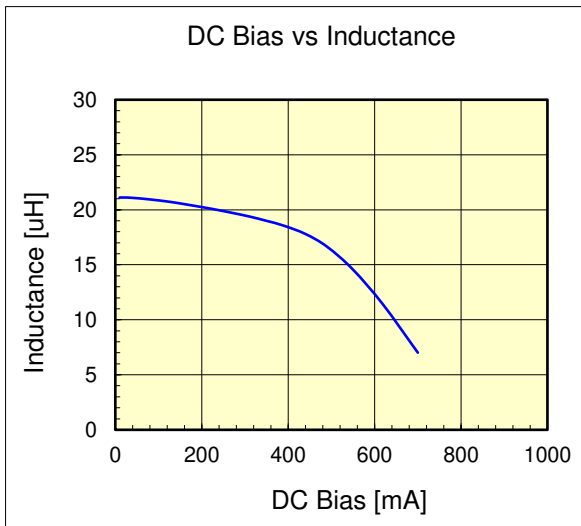
SMD Power Inductors (NR series S type)

NRS3015T220MNGH



Dimension	unit : mm	unit : inch
Length :	3.0 +/- 0.1	(0.118 +/- 0.004)
Width :	3.0 +/- 0.1	(0.118 +/- 0.004)
Height :	1.5 max.	(0.059 max.)

Inductance :	22	uH (test freq at 0.1MHz)
DC Resistance :	0.52 / 0.624	ohm (typ / max)
Saturation Current :	470	mA (max)
Temp. rise Current :	470	mA (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

- 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.
Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the product listed in this spec sheet for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.
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