

## Inductors

## NRS5024T220MMGJ



## ■ Features

- Item Summary  
22uH±20%, 0.82A, 4.9x4.9x2.4mm
- Lifecycle Stage  
New PN available
- Standard packaging quantity (minimum)  
Taping Embossed 2500pcs

## ■ Products characteristics table

Inductance	22 uH ± 20 %
Case Size (mm)	4.9x4.9
Rated Current (max)	0.82 A
Saturation Current (max)	1.2 A (ΔL=30%)
Saturation Current (typ)	1.45 A (ΔL=30%)
Temperature Rise Current (max)	0.82 A (ΔT=40°C)
Temperature Rise Current (typ)	0.9 A (ΔT=40°C)
DC Resistance (max)	0.276 Ω
DC Resistance (typ)	0.23 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	15 MHz
Operating Temp. Range	-25 to +125 °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

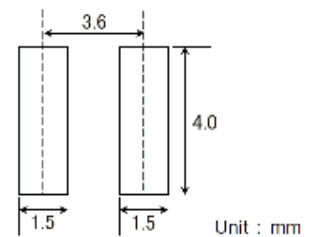
## ■ External Dimensions

Dimension L	4.9 ± 0.2 mm
Dimension W	4.9 ± 0.2 mm
Dimension H	Max 2.4 mm
Dimension e	1.2 ± 0.2 mm
Dimension f	3.3 ± 0.2 mm
Dimension ΔI	Typ 1.3 mm

## ■ Recommended Land Patterns

【推奨のランドパターン】  
 二端子用半電  
 ・両端は鉛錫共融合金（Sn62/Pb36/Ag2）のペーストを塗布し、再流熱処理を施す。  
 ・両端は鉛錫共融合金（Sn62/Pb36/Ag2）のペーストを塗布し、再流熱処理を施す。

【Recommended Land Pattern】  
 Surface Mounting  
 ・両端は鉛錫共融合金（Sn62/Pb36/Ag2）のペーストを塗布し、再流熱処理を施す。  
 ・両端は鉛錫共融合金（Sn62/Pb36/Ag2）のペーストを塗布し、再流熱処理を施す。



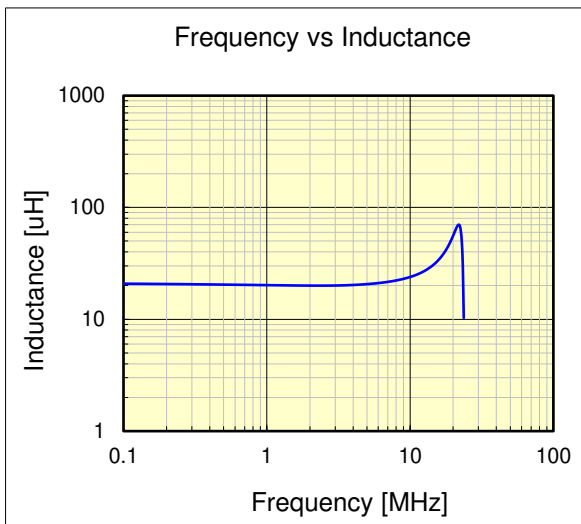
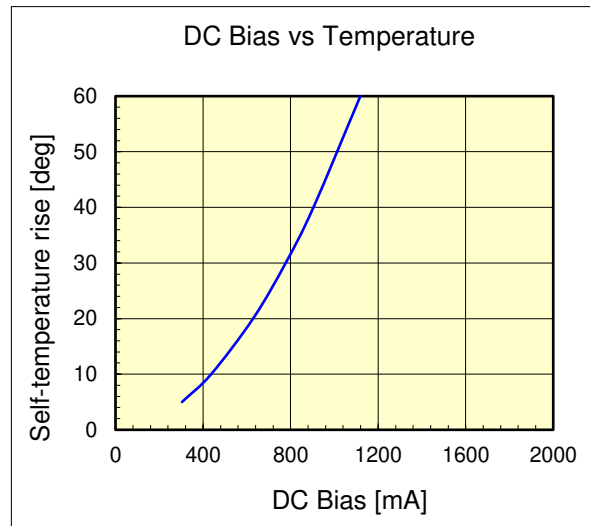
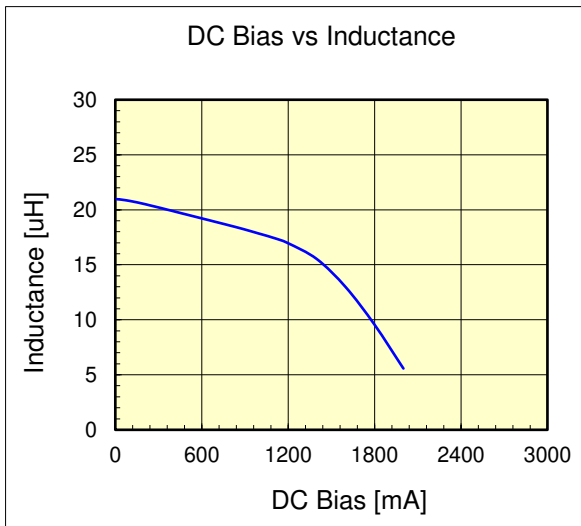
SMD Power Inductors (NR series S type)

NRS5024T220MMGJ



Dimension	unit : mm	unit : inch
Length :	4.9 +/- 0.2	( 0.193 +/- 0.008 )
Width :	4.9 +/- 0.2	( 0.193 +/- 0.008 )
Height :	2.4 max.	( 0.094 max. )

Inductance :	22	uH ( test freq at 0.1MHz )
DC Resistance :	0.23 / 0.276	ohm ( typ / max )
Saturation Current :	1,200	mA ( max )
Temp. rise Current :	820	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.



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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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