

Inductors

NRS5024T330MMGJ



■ Features

- Item Summary
33uH±20%, 0.63A, 4.9x4.9x2.4mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 2500pcs

■ Products characteristics table

Inductance	33 uH ± 20 %
Case Size (mm)	4.9x4.9
Rated Current (max)	0.63 A
Saturation Current (max)	1 A (ΔL=30%)
Saturation Current (typ)	1.2 A (ΔL=30%)
Temperature Rise Current (max)	0.63 A (ΔT=40°C)
Temperature Rise Current (typ)	0.7 A (ΔT=40°C)
DC Resistance (max)	0.444 Ω
DC Resistance (typ)	0.37 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	11 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

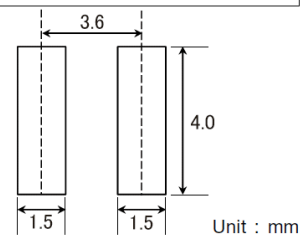
■ External Dimensions

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

【推奨ランドパターン】
実装上の注意
・実装状態を確認の上ご使用くださいますようお願いいたします。
・本製品のはんだ付けはリフローはんだ工法に限ります。

【Recommended Land Patterns】
Surface Mounting
・Mounting and soldering conditions should be checked beforehand.
・Applicable soldering process to these products is reflow soldering only.



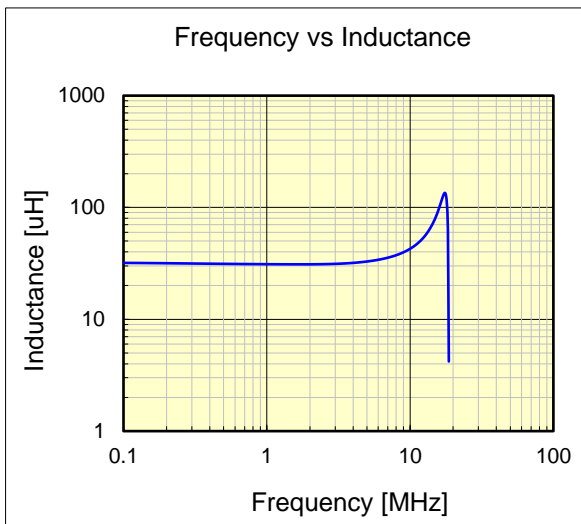
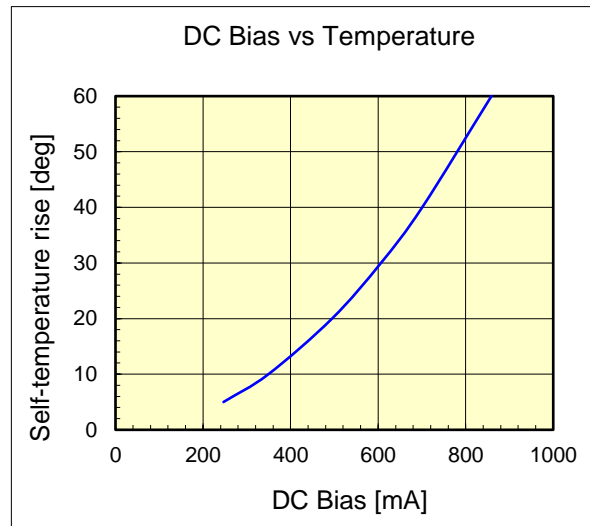
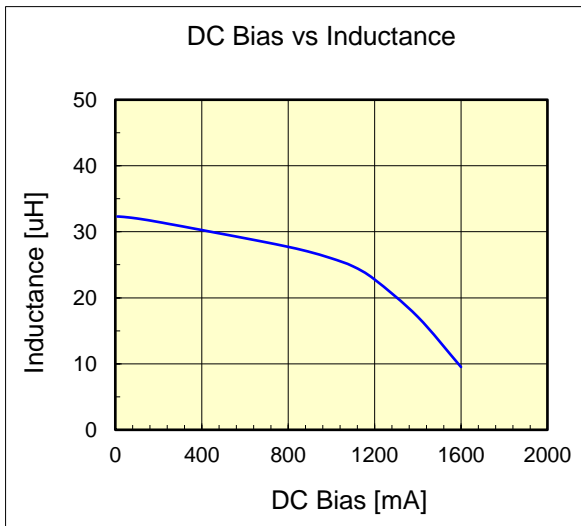
SMD Power Inductors (NR series S type)

NRS5024T330MMGJ



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 :	33	uH (test freq at 0.1MHz)
DC Resistance :	0.37 / 0.444	ohm (typ / max)
Saturation Current :	1,000	mA (max)
Temp. rise Current :	630	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.
- The product listed in this spec sheet is intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC). Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class I, II or III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).
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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