

Inductors

NRS8040T2R2NJGJ



■ Features

- Item Summary
2.2uH±30%, 6.3A, 8.0x8.0x4.2mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 1000pcs

■ Products characteristics table

Inductance	2.2 uH ± 30 %
Case Size (mm)	8.0x8.0
Rated Current (max)	6.3 A
Saturation Current (max)	8.1 A (ΔL=30%)
Saturation Current (typ)	9.2 A (ΔL=30%)
Temperature Rise Current (max)	6.3 A (ΔT=40°C)
Temperature Rise Current (typ)	7.6 A (ΔT=40°C)
DC Resistance (max)	11.7 mΩ
DC Resistance (typ)	9 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	50 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

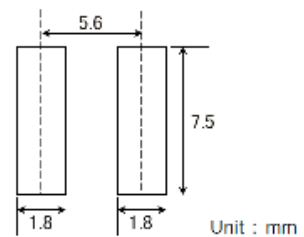
■ External Dimensions

Dimension L	8.0 ± 0.2 mm
Dimension W	8.0 ± 0.2 mm
Dimension H	Max 4.2 mm
Dimension e	1.6 ± 0.3 mm
Dimension f	5.6 ± 0.3 mm

■ Recommended Land Patterns

【推奨のランドパターン】
 両面テープ
 ・両面テープの厚さは0.1mm以下にしてください。
 ・両面テープの接着剤は、熱硬化型樹脂系を推奨します。

【Reflow Soldering】
 ・Fluxは、鉛フリー用を推奨します。
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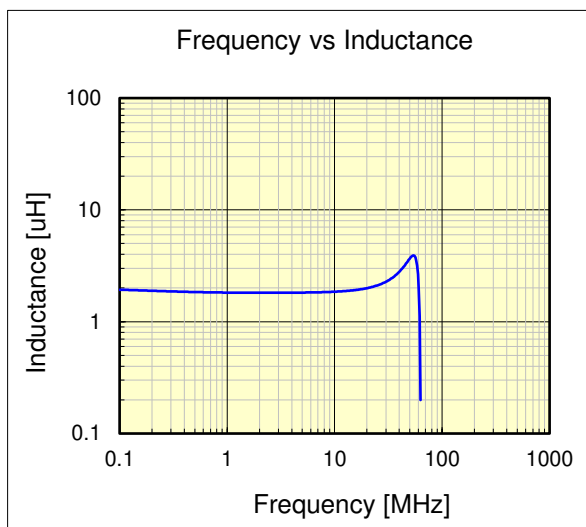
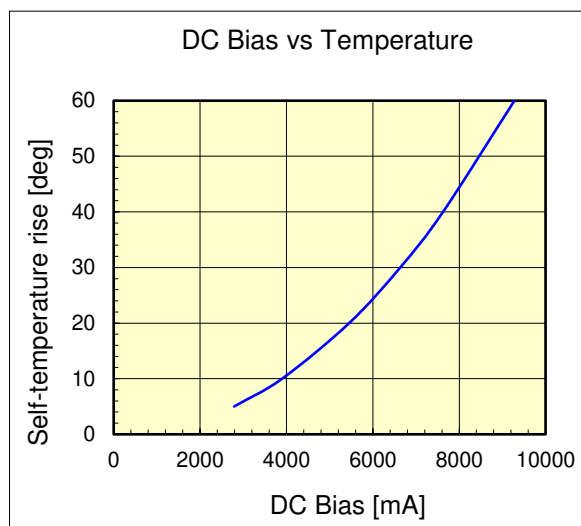
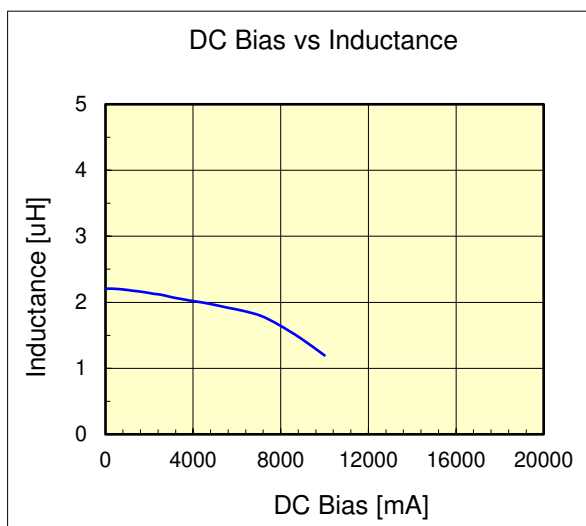
SMD Power Inductors (NR series S type)

NRS8040T2R2NJGJ



Dimension	unit : mm	unit : inch
Length :	8.0 +/- 0.2	(0.315 +/- 0.008)
Width :	8.0 +/- 0.2	(0.315 +/- 0.008)
Height :	4.2 max.	(0.165 max.)

Inductance :	2.2	uH	(test freq at 0.1MHz)
DC Resistance :	0.009 / 0.0117	ohm	(typ / max)
Saturation Current :	9,200 / 8,100	mA	(typ / max)
Temp. rise Current :	7,600 / 6,300	mA	(typ / 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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