

Inductors

NRS8040T151MJGK



■ Features

- Item Summary
150uH±20%, 0.8A, 8.0x8.0x4.0mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 1000pcs

■ Products characteristics table

Inductance	150 uH ± 20 %
Case Size (mm)	8.0x8.0
Rated Current (max)	0.8 A
Saturation Current (max)	0.9 A (ΔL=30%)
Saturation Current (typ)	0.98 A (ΔL=30%)
Temperature Rise Current (max)	0.8 A (ΔT=40°C)
Temperature Rise Current (typ)	0.89 A (ΔT=40°C)
DC Resistance (max)	0.546 Ω
DC Resistance (typ)	0.42 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	5 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

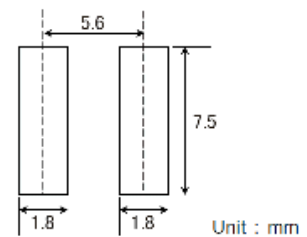
■ External Dimensions

Dimension L	8.0 ± 0.2 mm
Dimension W	8.0 ± 0.2 mm
Dimension H	Max 4.0 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
 ・両面テープは、必ずしも必要ではありません。
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【Dimensional Land Pattern】
 ・This is the recommended land pattern for this product.
 ・Apply the soldering process to these products in the following way.



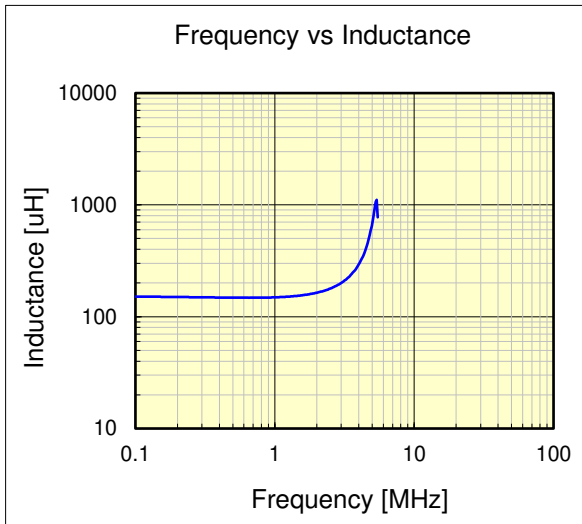
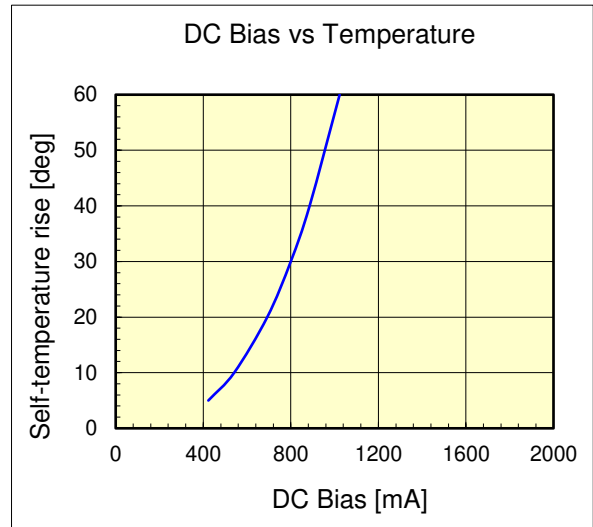
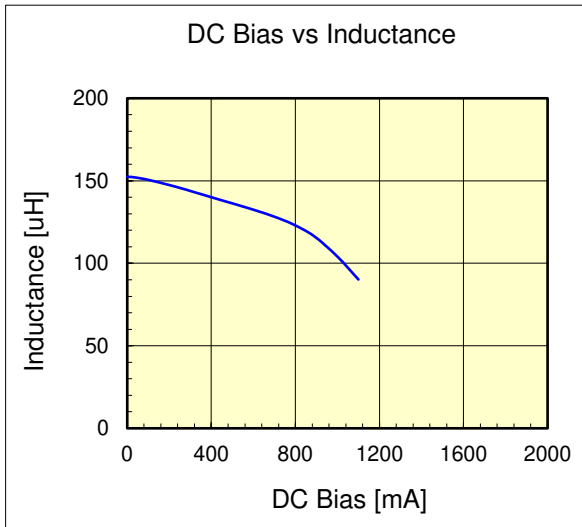
SMD Power Inductors (NR series S type)

NRS8040T151MJGK



Dimension	unit : mm	unit : inch
Length :	8.0 +/- 0.2	(0.315 +/- 0.008)
Width :	8.0 +/- 0.2	(0.315 +/- 0.008)
Height :	4.0 max.	(0.157 max.)

Inductance :	150	uH	(test freq at 0.1MHz)
DC Resistance :	0.42 / 0.546	ohm	(typ / max)
Saturation Current :	980 / 900	mA	(typ / max)
Temp. rise Current :	890 / 800	mA	(typ / 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.



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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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