

Inductors

NRS5030TR47NMGJ



■ Features

- Item Summary
0.47uH±30%, 5A, 4.9x4.9x3.1mm
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 500pcs

■ Products characteristics table

Inductance	0.47 uH ± 30 %
Case Size (mm)	4.9x4.9
Rated Current (max)	5 A
Saturation Current (max)	9 A (ΔL=30%)
Saturation Current (typ)	9.4 A (ΔL=30%)
Temperature Rise Current (max)	5 A (ΔT=40°C)
Temperature Rise Current (typ)	5.9 A (ΔT=40°C)
DC Resistance (max)	13 mΩ
DC Resistance (typ)	10 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	185 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

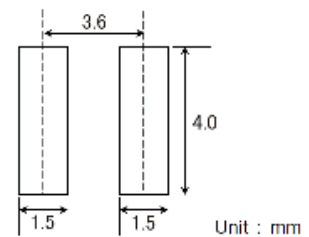
■ External Dimensions

Dimension L	4.9 ± 0.2 mm
Dimension W	4.9 ± 0.2 mm
Dimension H	Max 3.1 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】
 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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【Recommended Land Pattern】
 Surface Mounting
 ・If a reflow soldering method is used, the reflow temperature should be 260°C or lower.
 ・Apply the soldering process to these products in accordance with the following.



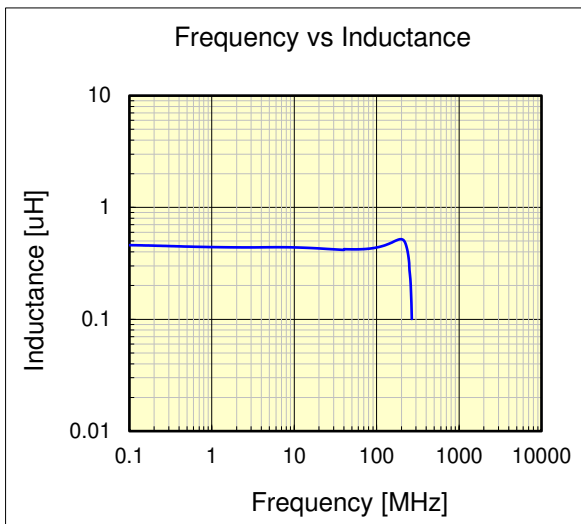
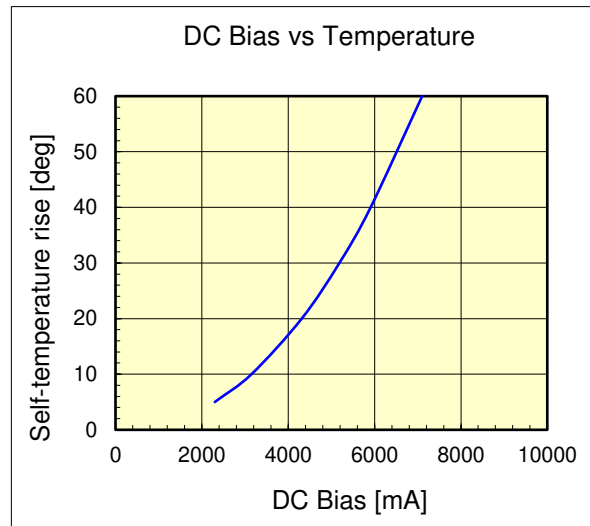
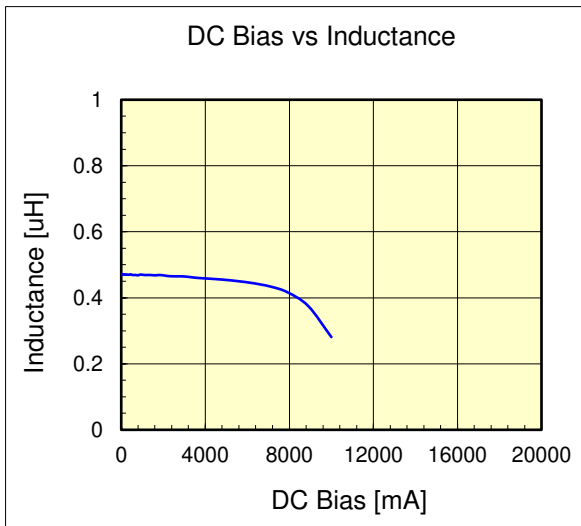
SMD Power Inductors (NR series S type)

NRS5030TR47NMGJ



Dimension	unit : mm	unit : inch
Length :	4.9 +/- 0.2	(0.193 +/- 0.008)
Width :	4.9 +/- 0.2	(0.193 +/- 0.008)
Height :	3.1 max.	(0.122 max.)

Inductance :	0.47	uH (test freq at 0.1MHz)
DC Resistance :	0.01 / 0.013	ohm (typ / max)
Saturation Current :	9,000	mA (max)
Temp. rise Current :	5,000	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).
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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