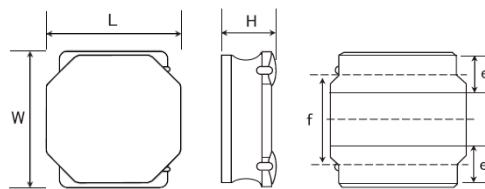


SMD Power Inductors (NR series H type)

NRH3010T6R8MN



■ Features

- Item Summary
6.8uH±20%, 0.7A, 3.0x3.0x1.0mm
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs

■ Products characteristics table

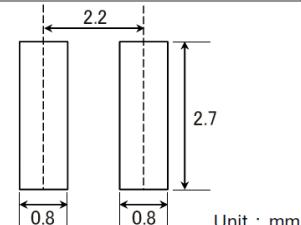
Inductance	6.8 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	0.7 A
Saturation Current (max)	0.7 A
Saturation Current (typ)	0.75 A
Temperature Rise Current (max)	0.745 A
Temperature Rise Current (typ)	0.92 A
DC Resistance (max)	0.3 Ω
DC Resistance (typ)	0.25 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	44 MHz
Operating Temp. Range	-25 to +120 °C (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 20 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (168 subst.)	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	3.0 ±0.1 mm
Dimension W	3.0 ±0.1 mm
Dimension H	Max 1.0 mm
Dimension e	0.9 ±0.2 mm
Dimension f	1.9 ±0.2 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.



The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
Before making final selection, please check product specification.

2017.01.02

SMD Power Inductors (NR series H type)

NRH3010T6R8MN

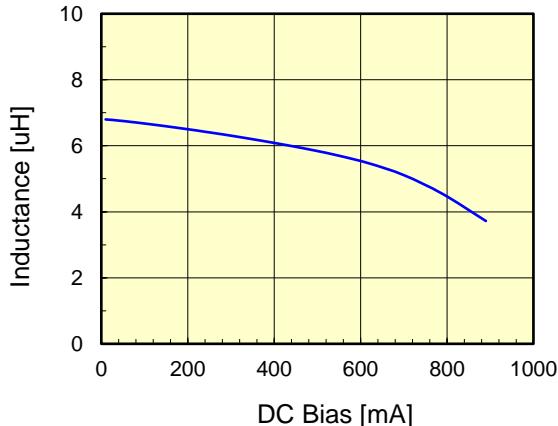


Dimension	unit : mm	unit : inch
Length :	3.0 +/- 0.1	(0.118 +/- 0.004)
Width :	3.0 +/- 0.1	(0.118 +/- 0.004)
Height :	1.0 max.	(0.039 max.)

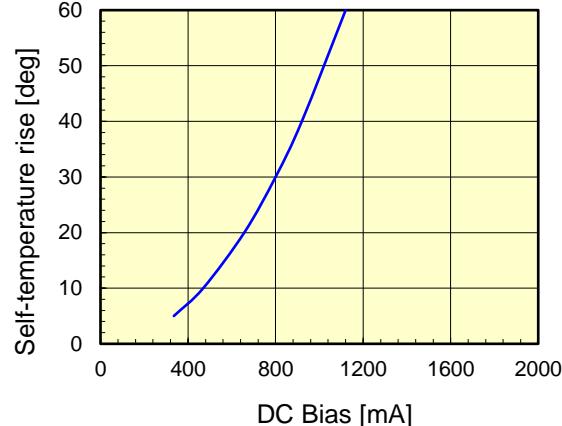
Inductance : 6.8 uH (test freq at 0.1MHz)
DC Resistance : 0.25 / 0.3 ohm (typ / max)
Saturation Current : 700 mA (max)
Temp. rise Current : 745 mA (max)

Saturation current typical : 30% reduction from initial L value.
Temp rise Current typical : Temperature will rise by 40 deg C

DC Bias vs Inductance



DC Bias vs Temperature



Frequency vs Inductance

