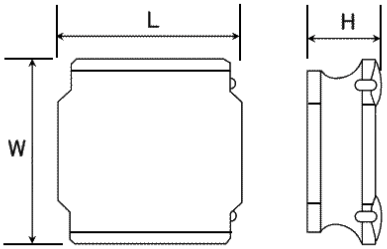
Spec Sheet

SMD Power Inductors for Automotive / Industrial Applications (NR series H type / V type / S type)

NRS8040T6R8NJGJV



Features

- Item Summary

  6.8μH(±30%), 4400mA, 3700mA
- Lifecycle Stage

  Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)

  Taping 1000pcs

Products characteristics table

CaseSize (EIA/JIS)	-/8080
Inductance	6.8μH(±30%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	4400mA
Rated Current -Temperature Rise Current	3700mA
DC Resistance (max)	0.0325Ω
Avg. of DC.Resistance	0.025Ω
Self-resonant Frequency (min)	24MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

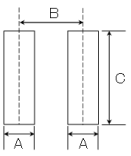
External Dimensions

L	8mm ±0.2
W	8mm ±0.2
H	4.2mm max

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/NR series H type/S type /V type)

Type	A	B	C
NRS8030, NR 8040, NRS8040	1.8	5.6	7.5

unit : mm

2015.03.09

SMD Power Inductors for Industrial / Automotive Comfort and Safety Applications (NR series S type)(AEC-Q200 qualified)

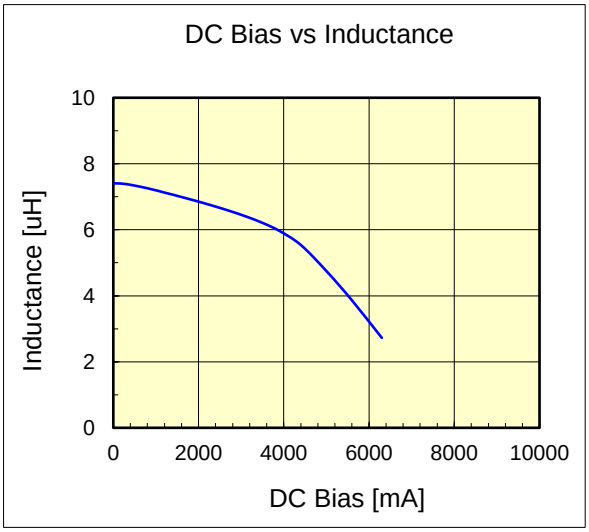
NRS8040T6R8NJGJV

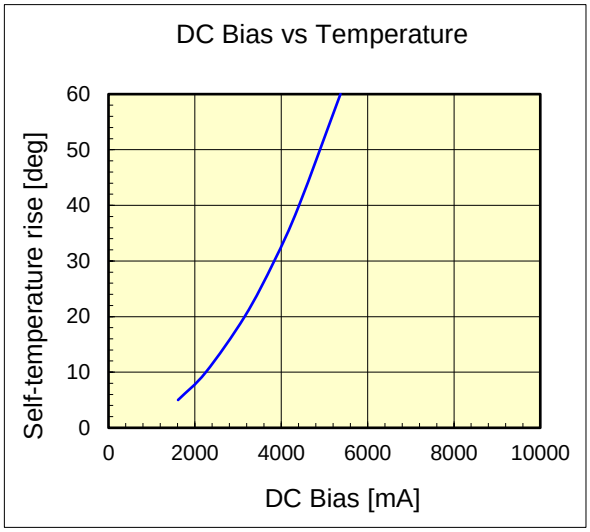
AEC-Q200 qualified

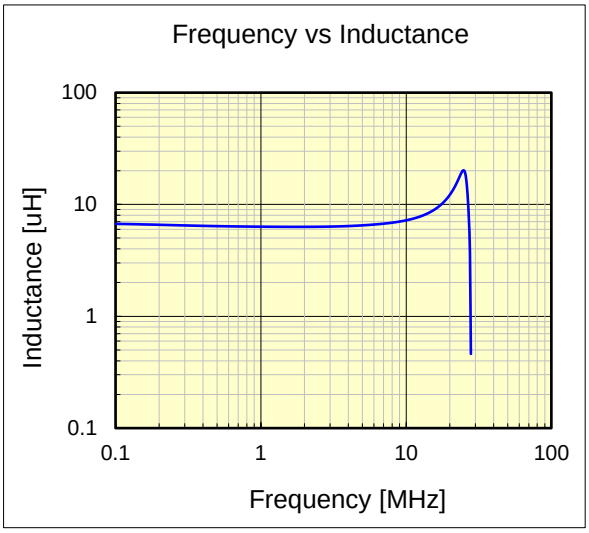
Dimension	unit : mm	unit : inch
Length :	8.0 + / - 0.2	(0.315 + / - 0.008)
Width :	8.0 + / - 0.2	(0.315 + / - 0.008)
Height :	4.2 max.	(0.165 max.)

Inductance :	6.8 uH	(test freq at 0.1MHz)
DC Resistance :	0.025 / 0.0325	ohm (typ / max)
Saturation Current :	4,400 mA (max)	
Temp. rise Current :	3,700 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.

The products are tested based on the test conditions and methods defined in AEC-Q200.
Please consult with TAIYO YUDEN for the details of the product specification and AEC-Q200 test results, etc., and please review and approve TAIYO YUDEN's product specification before ordering.