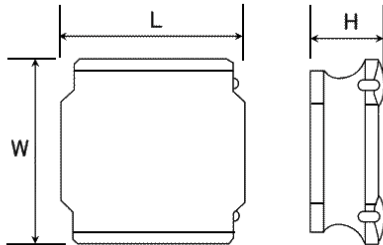


# Spec Sheet

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

## NRS8040T2R0NJGV



### ■ Features

- Item Summary  
2.0  $\mu$ H ( $\pm$ 30%), 8100mA, 6300mA
- Lifecycle Stage  
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping 1000pcs

### ■ Products characteristics table

CaseSize (EIA/JIS)	-/8080
Inductance	2.0 $\mu$ H ( $\pm$ 30%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	8100mA
Rated Current -Temperature Rise Current	6300mA
DC Resistance (max)	0.0117 $\Omega$
Avg. of DC.Resistance	0.009 $\Omega$
Self-resonant Frequency (min)	50MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

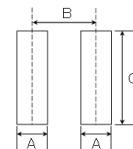
### ■ External Dimensions

L	8mm $\pm$ 0.2
W	8mm $\pm$ 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。また、お願いたします。  
 ・本製品のはんだ付けはリフローはんだ工法に限りま。

【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,	1.8	5.6	7.5
NR 6040, NRS8040			

unit:mm

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.

2015.03.09

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

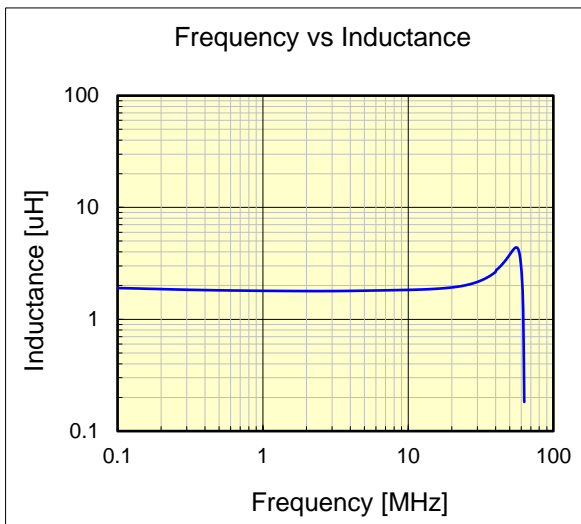
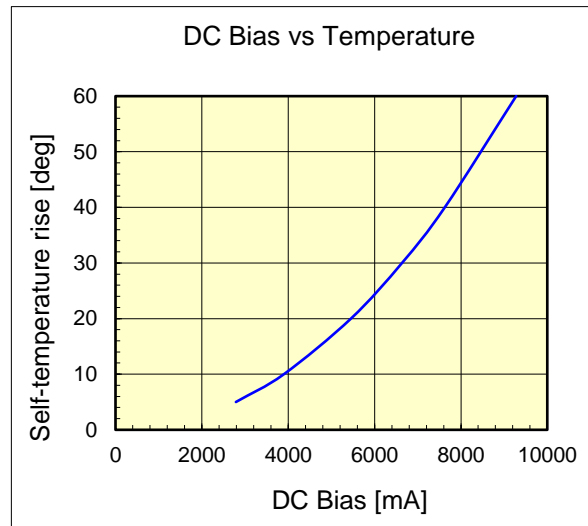
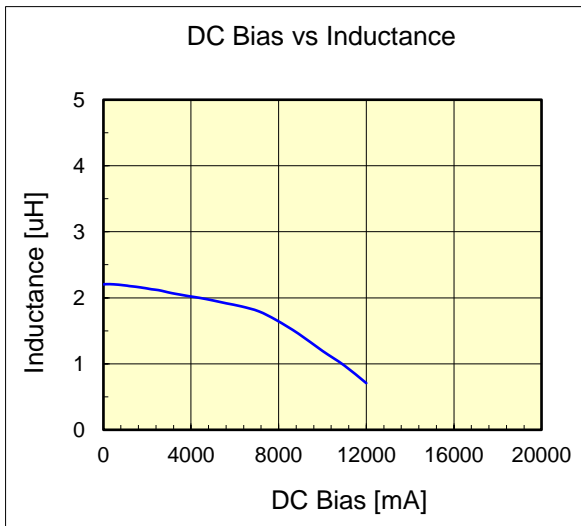
**NRS8040T2R0NJGJV**



**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 :	2.0	uH (test freq at 0.1MHz)
DC Resistance :	0.009 / 0.0117	ohm (typ / max)
Saturation Current :	8,100	mA (max)
Temp. rise Current :	6,300	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.