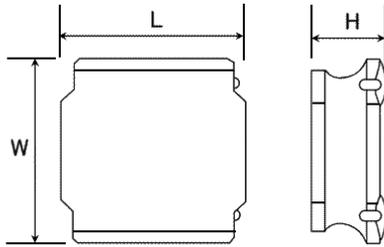


Spec Sheet

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

NRS8030T2R2NJGJV



■ Features

- Item Summary
2.2 μ H (\pm 30%), 4900mA, 4800mA
- Lifecycle Stage
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Taping 1000pcs

■ Products characteristics table

| | |
|---|--------------------------|
| CaseSize (EIA/JIS) | -/8080 |
| Inductance | 2.2 μ H (\pm 30%) |
| Inductance Measuring Frequency | 100kHz |
| Rated Current -Saturation Current | 4900mA |
| Rated Current -Temperature Rise Current | 4800mA |
| DC Resistance (max) | 0.0195 Ω |
| Avg. of DC.Resistance | 0.015 Ω |
| Self-resonant Frequency (min) | 60MHz |
| RoHS Compliance | Yes |
| Halogen Free | Yes |
| Soldering Method | Reflow |

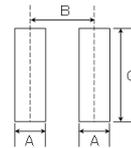
■ External Dimensions

| | |
|---|---------------|
| L | 8mm \pm 0.2 |
| W | 8mm \pm 0.2 |
| H | 3mm 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

2015.03.09

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.

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

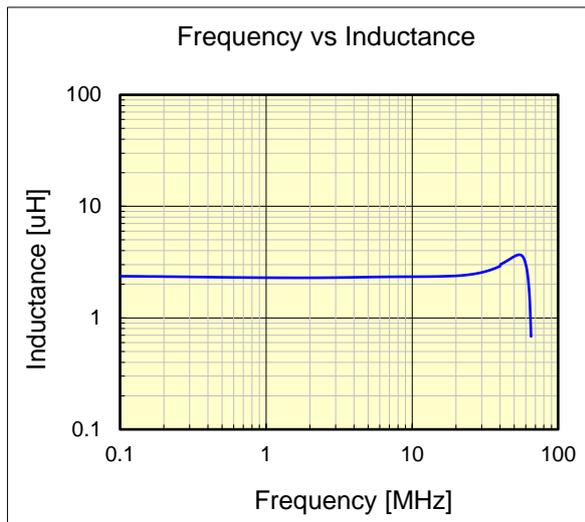
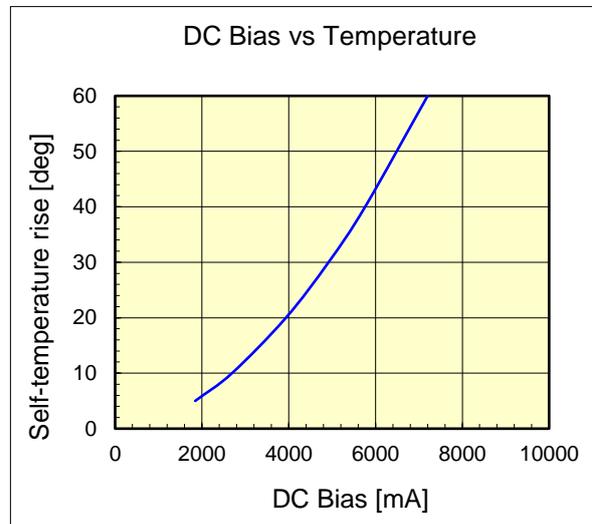
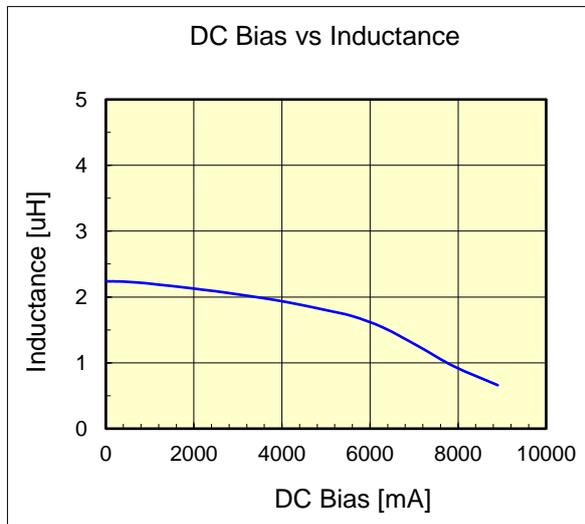
NRS8030T2R2NJGJV



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 : | 3.0 max. | (0.118 max.) |

| | | |
|--|----------------|--------------------------|
| Inductance : | 2.2 | uH (test freq at 0.1MHz) |
| DC Resistance : | 0.015 / 0.0195 | ohm (typ / max) |
| Saturation Current : | 4,900 | mA (max) |
| Temp. rise Current : | 4,800 | 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.