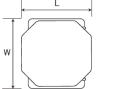
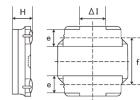
Spec Sheet

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

NRS5030T220MMGJV





Features

- Item Summary22uH±20%, 1.05A, 4.9x4.9x3.0mm
- Lifecycle Stage
 - Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)

Taping Embossed 500pcs

■ Products characteristics table

| Inductance | 22 uH ± 20 % |
|--|--|
| Case Size (mm) | 4.9x4.9 |
| Rated Current (max) | 1.05 A |
| Saturation Current (max) | 1.4 A |
| Temperature Rise Current (max) | 1.05 A |
| DC Resistance (max) | 0.234 Ω |
| DC Resistance (typ) | 0.18 Ω |
| LQ Measuring Frequency | 100 kHz |
| Self Resonant Frequency (min) | 13 MHz |
| Operating Temp. Range | -40 to +125 ℃ (Including-self-generated heat) |
| Temperature characteristic (Inductance change) | ± 20 % |
| RoHS2 Compliance (10 subst.) | Yes |
| REACH Compliance (173 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 3.0 mm |
| Dimension e | 1.2 ±0.2 mm |
| Dimension f | $3.3 \pm 0.2 \text{ mm}$ |
| Dimension ΔI | Typ 1.3 mm |

Recommended Land Patterns



2017.05.02

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.

Unit: mm

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

NRS5030T220MMGJV



AEC-Q200 qualified

Dimension unit: mm unit: inch

Length: 4.9 +/- 0.2 (0.193 +/- 0.008)

Width: 4.9 +/- 0.2 (0.193 +/- 0.008)

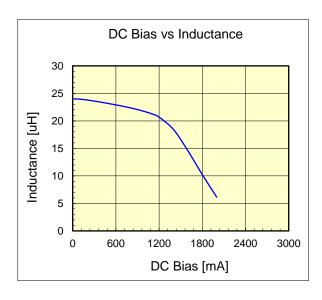
Height: 3.0 max. (0.118 max.)

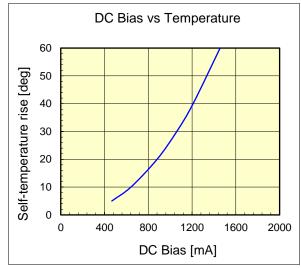
Inductance: 22 uH (test freq at 0.1MHz)
DC Resistance: 0.18 / 0.234 ohm (typ/max)

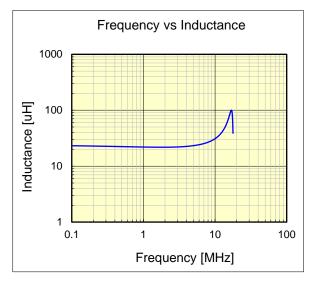
Saturation Current: 1,400 mA (max) Temp. rise Current: 1,050 mA (max)

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.