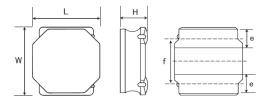
Spec Sheet

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

NRS4012T220MDGJV



Features

- Item Summary 22uH±20%, 0.5A, 4.0x4.0x1.2mm
- Lifecycle Stage
 Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)

Taping Embossed 4500pcs

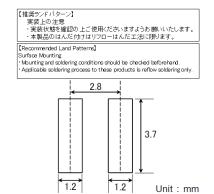
Products characteristics table

Inductance	22 uH ± 20 %
Case Size (mm)	4.0x4.0
Rated Current (max)	0.5 A
Saturation Current (max)	0.5 A
Temperature Rise Current (max)	0.62 A
DC Resistance (max)	0.48 Ω
DC Resistance (typ)	0.4 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	18 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	4.0 ±0.2 mm
Dimension W	4.0 ±0.2 mm
Dimension H	Max 1.2 mm
Dimension e	1.1 ±0.2 mm
Dimension f	2.5 ±0.2 mm

Recommended Land Patterns



2017.04.30

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: inch

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

Dimension

NRS4012T220MDGJV

Length: 4.0 +/- 0.2 (0.157 +/- 0.008)

Width: 4.0 +/- 0.2 (0.157 +/- 0.008)

Height: 1.2 max. (0.047 max.)

Inductance: 22 uH (test freq at 0.1MHz)
DC Resistance: 0.4 / 0.48 ohm (typ/max)

unit : mm

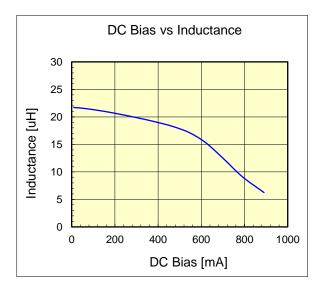
Saturation Current: 500 mA (max) Temp. rise Current: 620 mA (max)

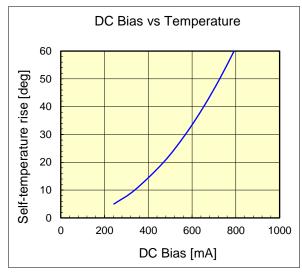
Saturation current typical : 30% reduction from initial L value.

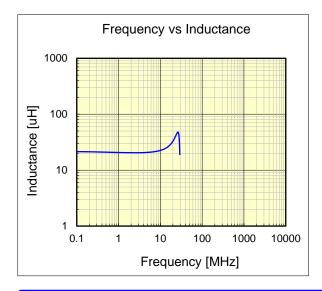
Temp rise Current typical : Temperature will rise by 40 deg C



AEC-Q200 qualified







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.