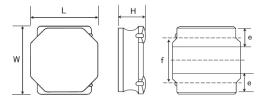
Spec Sheet

SMD Power Inductors (NR series H type)

NRH3012T220MN



Features

- Item Summary
 22uH±20%, 0.5A, 3.0x3.0x1.2mm
- Lifecycle Stage
 - Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs

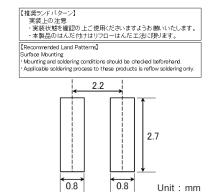
Products characteristics table

Inductance	22 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	0.5 A
Saturation Current (max)	0.5 A
Saturation Current (typ)	0.55 A
Temperature Rise Current (max)	0.5 A
Temperature Rise Current (typ)	0.59 A
DC Resistance (max)	0.756 Ω
DC Resistance (typ)	0.63 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	22 MHz
Operating Temp. Range	-25 to +120 ℃ (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	3.0 ±0.1 mm
Dimension W	3.0 ±0.1 mm
Dimension H	Max 1.2 mm
Dimension e	0.9 ±0.2 mm
Dimension f	1.9 ±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.

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Dimension unit : mm unit: inch Length: 3.0 + / - 0.1(0.118 + / - 0.004)Width: 3.0 +/- 0.1 (0.118 + / - 0.004)max.) Height: 1.2 (0.047 max.

Inductance: 22 иΗ (test freq at 0.1MHz) DC Resistance: 0.63 / 0.756 ohm (typ/max)

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

> Saturation current typical: 30% reduction from initial L value. Temp rise Current typical: Temperature will rise by 40 deg C

