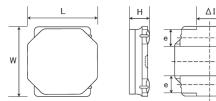
Spec Sheet

SMD Power Inductors (NR series S type)

NRS6045T3R0NMGK



Features

- Item Summary 3.0uH±30%, 3.3A, 6.0x6.0x4.5mm
- Lifecycle Stage

Mass Production

Standard packaging quantity (minimum)
Taping Embossed 1500pcs

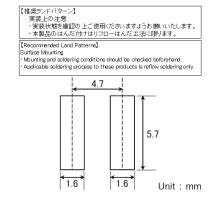
Products characteristics table

Inductance	3.0 uH ± 30 %
Case Size (mm)	6.0x6.0
Rated Current (max)	3.3 A
Saturation Current (max)	5.6 A
Saturation Current (typ)	6.5 A
Temperature Rise Current (max)	3.3 A
Temperature Rise Current (typ)	4 A
DC Resistance (max)	31.2 mΩ
DC Resistance (typ)	24 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	45 MHz
Operating Temp. Range	-25 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	6.0 ±0.2 mm
Dimension W	6.0 ±0.2 mm
Dimension H	Max 4.5 mm
Dimension e	1.35 ±0.2 mm
Dimension f	4.0 ±0.2 mm
Dimension ΔI	Typ 2.3 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: 6.0 + / - 0.2(0.236 + / - 0.008)Width: 6.0 +/- 0.2 (0.236 +/- 0.008) max.) Height: 4.5 max. (0.177

Inductance: 3.0 (test freq at 0.1MHz) иΗ DC Resistance: 0.024 / 0.0312 ohm (typ/max)

Saturation Current: 5,600 mA (max) 3,300 mA (max) Temp. rise Current:

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

