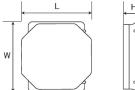
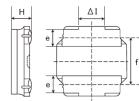
Spec Sheet

SMD Power Inductors (NR series)

NR6045T6R3M





Features

- Item Summary 6.3uH±20%, 2.8A, 6.0x6.0x4.5mm
- Lifecycle Stage

Mass Production

Standard packaging quantity (minimum)
Taping Embossed 1500pcs

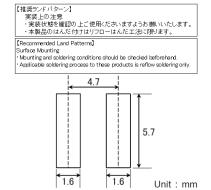
Products characteristics table

Inductance	6.3 uH ± 20 %
Case Size (mm)	6.0x6.0
Rated Current (max)	2.8 A
Saturation Current (max)	3.8 A
Temperature Rise Current (max)	2.8 A
DC Resistance (max)	49.4 mΩ
DC Resistance (typ)	38 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	15 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	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



2017.05.03

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: 6.3 (test freq at 0.1MHz) иΗ DC Resistance: 0.038 / 0.0494 ohm (typ/max)

Saturation Current: 3,800 mA (max) 2,800 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

