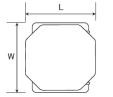
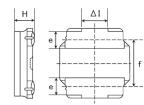
Spec Sheet

SMD Power Inductors (NR series)

NR6045T1R8N





Features

- Item Summary
 1.8uH±30%, 3.7A, 6.0x6.0x4.5mm
- Lifecycle Stage

Mass Production

Standard packaging quantity (minimum)
 Taping Embossed 1500pcs

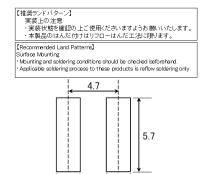
Products characteristics table

Inductance	1.8 uH ± 30 %
Case Size (mm)	6.0x6.0
Rated Current (max)	3.7 A
Saturation Current (max)	7 A
Temperature Rise Current (max)	3.7 A
DC Resistance (max)	23.4 mΩ
DC Resistance (typ)	18 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	80 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 Δ1	Typ 2.3 mm

Recommended Land Patterns



2017.04.30

Unit: mm

SMD Power Inductors (NR series)

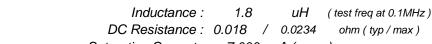
NR6045T1R8N

 Dimension
 unit: mm
 unit: inch

 Length:
 6.0 +/- 0.2
 (0.236 +/- 0.008)

 Width:
 6.0 +/- 0.2
 (0.236 +/- 0.008)

 Height:
 4.5
 max. (0.177 max.)



Saturation Current: 7,000 mA (max) Temp. rise Current: 3,700 mA (max)

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

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

