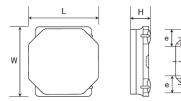
Spec Sheet

SMD Power Inductors (NR series S type)

NRS6045T680MMGK



Features

- Item Summary
 68uH±20%, 0.95A, 6.0x6.0x4.5mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 1500pcs

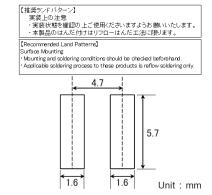
Products characteristics table

Inductance	68 uH ± 20 %
Case Size (mm)	6.0x6.0
Rated Current (max)	0.95 A
Saturation Current (max)	1.1 A
Saturation Current (typ)	1.3 A
Temperature Rise Current (max)	0.95 A
Temperature Rise Current (typ)	1.1 A
DC Resistance (max)	0.3952 Ω
DC Resistance (typ)	0.304 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	4 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 Δ1	Typ 2.3 mm

Recommended Land Patterns



2017.05.02

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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: 68 (test freq at 0.1MHz) иΗ DC Resistance: 0.304 / 0.3952 ohm (typ/max)

Saturation Current: 1,100 mA (max) Temp. rise Current: 950 mA (max)

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

