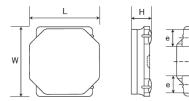
Spec Sheet

SMD Power Inductors (NR series S type)

NRS5030T6R8MMGJ



Features

- Item Summary 6.8uH±20%, 2.3A, 4.9x4.9x3.1mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)

Taping Embossed 500pcs

Products characteristics table

Inductance	6.8 uH ± 20 %
Case Size (mm)	4.9x4.9
Rated Current (max)	2.3 A
Saturation Current (max)	2.5 A
Saturation Current (typ)	2.8 A
Temperature Rise Current (max)	2.3 A
Temperature Rise Current (typ)	2.5 A
DC Resistance (max)	67.6 mΩ
DC Resistance (typ)	52 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	22 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	4.9 ±0.2 mm
Dimension W	4.9 ±0.2 mm
Dimension H	Max 3.1 mm
Dimension e	1.2 ±0.2 mm
Dimension f	3.3 ±0.2 mm
Dimension ΔI	Typ 1.3 mm

Recommended Land Patterns



2017.05.03

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Dimension unit: mm unit: inch

Length: 4.9 +/- 0.2 (0.193 +/- 0.008)

Width: 4.9 +/- 0.2 (0.193 +/- 0.008)

Height: 3.1 max. (0.122 max.)

Inductance: 6.8 uH (test freq at 0.1MHz)

DC Resistance: 0.052 / 0.0676 ohm (typ / max)

Saturation Current: 2,500 mA (max) Temp. rise Current: 2,300 mA (max)

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

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

