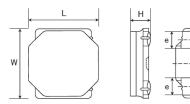
Spec Sheet

SMD Power Inductors (NR series S type)

NRS5012T1R0NMGF



Features

- Item Summary1.0uH±30%, 2.3A, 4.9x4.9x1.2mm
- Lifecycle Stage
 - Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 1000pcs

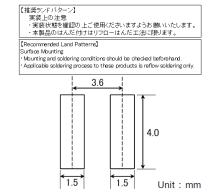
Products characteristics table

Inductance	1.0 uH ± 30 %
Case Size (mm)	4.9x4.9
Rated Current (max)	2.3 A
Saturation Current (max)	4.5 A
Saturation Current (typ)	4.67 A
Temperature Rise Current (max)	2.3 A
Temperature Rise Current (typ)	2.75 A
DC Resistance (max)	63.6 mΩ
DC Resistance (typ)	53 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	100 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 1.2 mm
Dimension e	1.2 ±0.2 mm
Dimension f	3.3 ±0.2 mm
Dimension Δ1	Typ 1.3 mm

Recommended Land Patterns



2017.04.30

TAIYO YUDE -Electrical Characteristics Data-

SMD Power Inductors (NR series S type)

NRS5012T1R0NMGF



Dimension unit : mm unit: inch Length: 4.9 + / - 0.2(0.193 + / - 0.008)Width: 4.9 +/- 0.2 (0.193 + / - 0.008)Height: 1.2 max. (0.047 max.)

Inductance: 1.0 иΗ (test freq at 0.1MHz) DC Resistance: 0.053 / 0.0636 ohm (typ/max)

Saturation Current: 4,500 mA (max) 2,300 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

