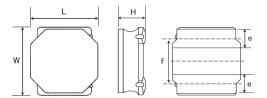
Spec Sheet

SMD Power Inductors (NR series V type)

NRV3012T1R0N



Features

- Item Summary1.0uH±30%, 1.6A, 3.0x3.0x1.2mm
- Lifecycle Stage
 - Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs

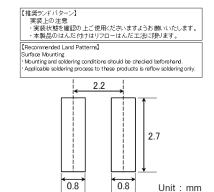
Products characteristics table

Inductance	1.0 uH ± 30 %
Case Size (mm)	3.0x3.0
Rated Current (max)	1.6 A
Saturation Current (max)	2.5 A
Saturation Current (typ)	3 A
Temperature Rise Current (max)	1.6 A
Temperature Rise Current (typ)	1.97 A
DC Resistance (max)	78 mΩ
DC Resistance (typ)	65 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	110 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	3.0 ±0.1 mm
Dimension W	3.0 ±0.1 mm
Dimension H	Max 1.2 mm
Dimension e	0.9 ±0.2 mm
Dimension f	1.9 ±0.2 mm

Recommended Land Patterns



2017.04.30

-Electrical Characteristics Data-

SMD Power Inductors (NR series V type)

NRV3012T1R0N



Dimension unit : mm unit: inch Length: 3.0 + / - 0.1(0.118 + / - 0.004)Width: 3.0 +/- 0.1 (0.118 + / - 0.004)Height: 1.2 (0.047 max.) max.

Inductance: 1.0 uН (test freq at 0.1MHz) DC Resistance: 0.065 / 0.078 ohm (typ/max)

Saturation Current: 2,500 mA (max) 1,600 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

