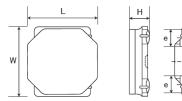
Spec Sheet

SMD Power Inductors (NR series S type)

NRS6045T470MMGK



Features

- Item Summary
 47uH±20%, 1.15A, 6.0x6.0x4.5mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 1500pcs

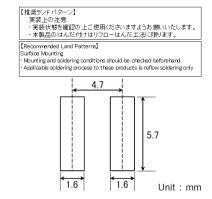
Products characteristics table

Inductance	47 uH ± 20 %
Case Size (mm)	6.0x6.0
Rated Current (max)	1.15 A
Saturation Current (max)	1.4 A
Saturation Current (typ)	1.6 A
Temperature Rise Current (max)	1.15 A
Temperature Rise Current (typ)	1.35 A
DC Resistance (max)	0.2743 Ω
DC Resistance (typ)	0.211 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	5 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 ΔI	Typ 2.3 mm

Recommended Land Patterns



2017.04.30

TAIYO YUDEN

SMD Power Inductors (NR series S type)

NRS6045T470MMGK



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.)

Inductance: 47 uH (test freq at 0.1MHz)
DC Resistance: 0.211 / 0.2743 ohm (typ/max)

Saturation Current: 1,400 mA (max) Temp. rise Current: 1,150 mA (max)

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

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

