

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 °C (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

【推奨ランドパターン】
実装上の注意
・実装状態を確認の上ご使用くださいますようお願いいたします。
・本製品のはんだ付けはリフローはんだ工法に限りします。

【Recommended Land Patterns】
Surface Mounting
・Mounting and soldering conditions should be checked beforehand.
・Applicable soldering process to these products is reflow soldering only.



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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)
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		

