

SMD Power Inductors (NR series)

NR6045T4R5M



■ Features

- Item Summary
4.5uH±20%, 3A, 6.0x6.0x4.5mm
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 1500pcs

■ Products characteristics table

Inductance	4.5 uH ± 20 %
Case Size (mm)	6.0x6.0
Rated Current (max)	3 A
Saturation Current (max)	4 A
Temperature Rise Current (max)	3 A
DC Resistance (max)	40.3 mΩ
DC Resistance (typ)	31 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	25 MHz
Operating Temp. Range	-25 to +120 °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

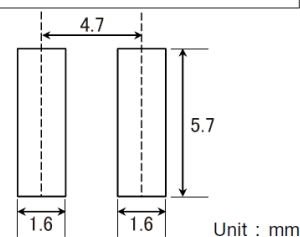
■ External Dimensions

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。また、ご購入の際は、本製品のハンダ付けはリフローハンダ工法に限りません。

【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 :	4.5	uH (test freq at 0.1MHz)
DC Resistance :	0.031 / 0.0403	ohm (typ / max)
Saturation Current :	4,000	mA (max)
Temp. rise Current :	3,000	mA (max)
Saturation current typical : 30% reduction from initial L value.		
Temp rise Current typical : Temperature will rise by 40 deg C		

