

## SMD Power Inductors (NR series S type)

## NRS5030T6R8MMGJ



## ■ Features

- Item Summary  
6.8uH±20%, 2.3A, 4.9x4.9x3.1mm
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 500pcs

## ■ Products characteristics table

Inductance	6.8 uH ± 20 %
Case Size (mm)	4.9x4.9
Rated Current (max)	2.3 A
Saturation Current (max)	2.5 A
Saturation Current (typ)	2.8 A
Temperature Rise Current (max)	2.3 A
Temperature Rise Current (typ)	2.5 A
DC Resistance (max)	67.6 mΩ
DC Resistance (typ)	52 mΩ
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	22 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	4.9 ± 0.2 mm
Dimension W	4.9 ± 0.2 mm
Dimension H	Max 3.1 mm
Dimension e	1.2 ± 0.2 mm
Dimension f	3.3 ± 0.2 mm
Dimension ΔI	Typ 1.3 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ま。

【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 :	4.9 +/- 0.2	( 0.193 +/- 0.008 )
Width :	4.9 +/- 0.2	( 0.193 +/- 0.008 )
Height :	3.1 max.	( 0.122 max. )

Inductance :	6.8	uH ( test freq at 0.1MHz )
DC Resistance :	0.052 / 0.0676	ohm ( typ / max )
Saturation Current :	2,500	mA ( max )
Temp. rise Current :	2,300	mA ( max )
Saturation current typical : 30% reduction from initial L value.		
Temp rise Current typical : Temperature will rise by 40 deg C		

