

## SMD Power Inductors (NR series H type)

## NRH3012T220MN



## ■ Features

- Item Summary  
22uH±20%, 0.5A, 3.0x3.0x1.2mm
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs

## ■ Products characteristics table

Inductance	22 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	0.5 A
Saturation Current (max)	0.5 A
Saturation Current (typ)	0.55 A
Temperature Rise Current (max)	0.5 A
Temperature Rise Current (typ)	0.59 A
DC Resistance (max)	0.756 Ω
DC Resistance (typ)	0.63 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	22 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	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

【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 :	3.0 +/- 0.1	( 0.118 +/- 0.004 )
Width :	3.0 +/- 0.1	( 0.118 +/- 0.004 )
Height :	1.2 max.	( 0.047 max. )

Inductance :	22	$\mu$ H ( test freq at 0.1MHz )
DC Resistance :	0.63 / 0.756	ohm ( typ / max )
Saturation Current :	500	mA ( max )
Temp. rise Current :	500	mA ( max )
Saturation current typical : 30% reduction from initial L value.		
Temp rise Current typical : Temperature will rise by 40 deg C		

