

SMD Power Inductors (NR series)

NR5040T220M



■ Features

- Item Summary
22uH±20%, 1.4A, 4.9x4.9x4.0mm
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 1500pcs

■ Products characteristics table

Inductance	22 uH ± 20 %
Case Size (mm)	4.9x4.9
Rated Current (max)	1.4 A
Saturation Current (max)	1.6 A
Temperature Rise Current (max)	1.4 A
DC Resistance (max)	0.1638 Ω
DC Resistance (typ)	0.126 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	9 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

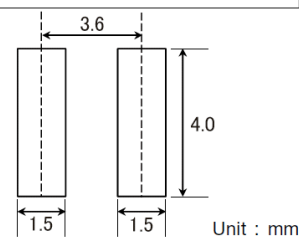
■ External Dimensions

Dimension L	4.9 ± 0.2 mm
Dimension W	4.9 ± 0.2 mm
Dimension H	Max 4.0 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 :	4.9 +/- 0.2	(0.193 +/- 0.008)
Width :	4.9 +/- 0.2	(0.193 +/- 0.008)
Height :	4.0 max.	(0.157 max.)

Inductance :	22	uH (test freq at 0.1MHz)
DC Resistance :	0.126 / 0.1638	ohm (typ / max)
Saturation Current :	1,600	mA (max)
Temp. rise Current :	1,400	mA (max)
Saturation current typical : 30% reduction from initial L value.		
Temp rise Current typical : Temperature will rise by 40 deg C		

