SMD Power Inductors (NR series H type)

NRH2412T2R2MNGH

Features

– Item Summary

2.2uH±20%, 1A, 2.4x2.4x1.2mm

– Lifecycle Stage

Mass Production

– Standard packaging quantity (minimum)

Taping Embossed 2500pcs

Products characteristics table

|	
Inductance	2.2 uH ± 20 %
Case Size (mm)	2.4x2.4
Rated Current (max)	1 A
Saturation Current (max)	1.7 A
Saturation Current (typ)	1.94 A
Temperature Rise Current (max)	1 A
Temperature Rise Current (typ)	1.19 A
DC Resistance (max)	0.168 Ω
DC Resistance (typ)	0.14 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	72 MHz
Operating Temp. Range	-25 to +120 ℃ (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	2.4 ±0.1 mm
Dimension W	2.4 ±0.1 mm
Dimension H	Max 1.2 mm
Dimension e	0.6 ±0.2 mm
Dimension f	1.45 ±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.
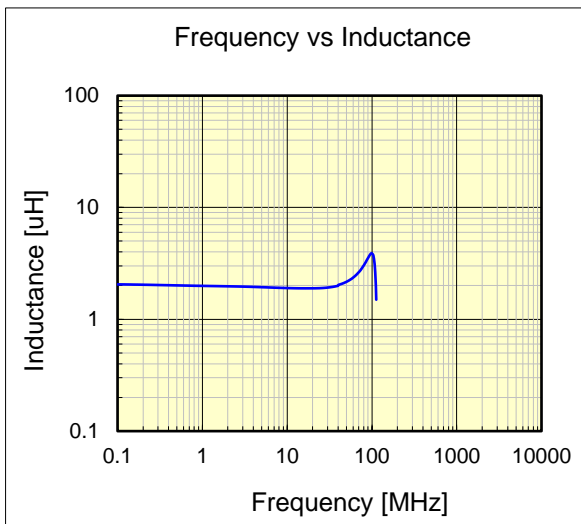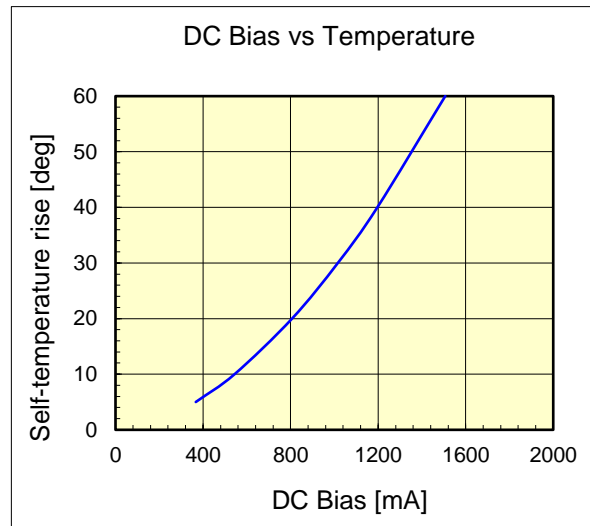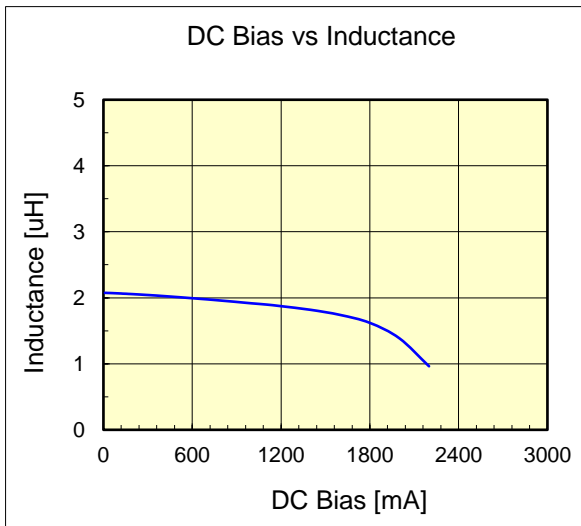
1.45

2.0

0.7   0.7

Unit : mm

TAIYO YUDEN
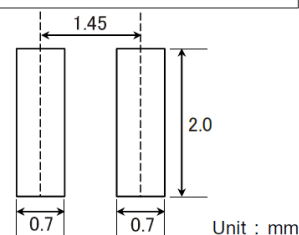
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Dimension	*unit : mm*	*unit : inch*
Length :	*2.4 + / - 0.1*	*(0.094 + / - 0.004)*
Width :	*2.4 + / - 0.1*	*(0.094 + / - 0.004)*
Height :	*1.2 max.*	*(0.047 max.)*

Inductance :   2.2   uH   (test freq at 0.1MHz)
DC Resistance :   0.14   /   0.168   ohm (typ / max)
Saturation Current :   1,700 mA (max)
Temp. rise Current :   1,000 mA (max)

Saturation current typical :   30% reduction from initial L value.
Temp rise Current typical :   Temperature will rise by 40 deg C

DC Bias vs Inductance

DC Bias vs Temperature

Frequency vs Inductance