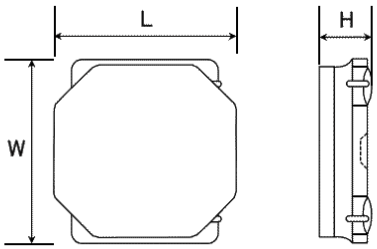
Spec Sheet

SMD Power Inductors for Automotive / Industrial Applications (NR series H type / V type / S type)

NRS6045T1R0NMGKV



Features

- Item Summary

  1.0μH(±30%), 9800mA, 4500mA
- Lifecycle Stage

  Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)

  Taping 1500pcs

Products characteristics table

CaseSize (EIA/JIS)	-/6060
Inductance	1.0μH(±30%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	9800mA
Rated Current -Temperature Rise Current	4500mA
DC Resistance (max)	0.0182Ω
Avg. of DC.Resistance	0.014Ω
Self-resonant Frequency (min)	110MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

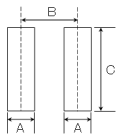
External Dimensions

L	6mm ±0.2
W	6mm ±0.2
H	4.5mm max

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.



SMD Power Inductors (NR series/NR series H type/S type /V type)

Type	A	B	C
NRS6010, NR 6012, NRS6012, NRS6014, NR 6020, NRS6020, NR 6028, NRS6028, NR 6045, NRS6045	1.6	4.7	5.7

unit: mm

2015.03.09

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
Before making final selection, please check product specification.

SMD Power Inductors for Industrial / Automotive Comfort and Safety Applications (NR series S type)(AEC-Q200 qualified)

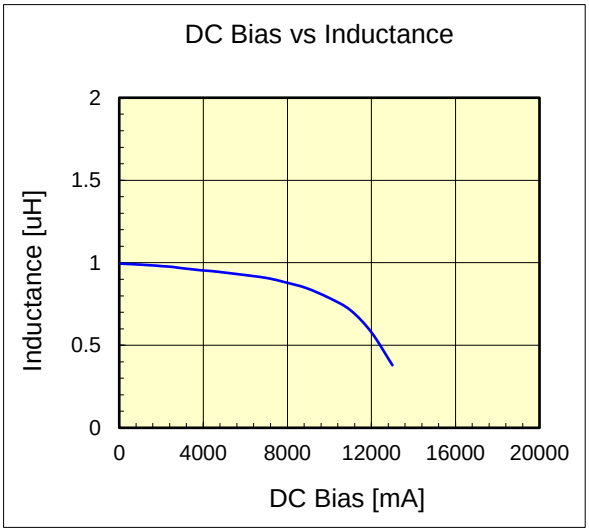
NRS6045T1R0NMGKV

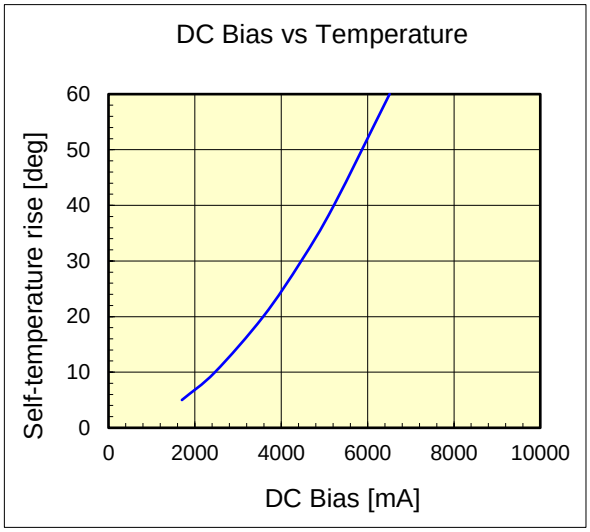
AEC-Q200 qualified

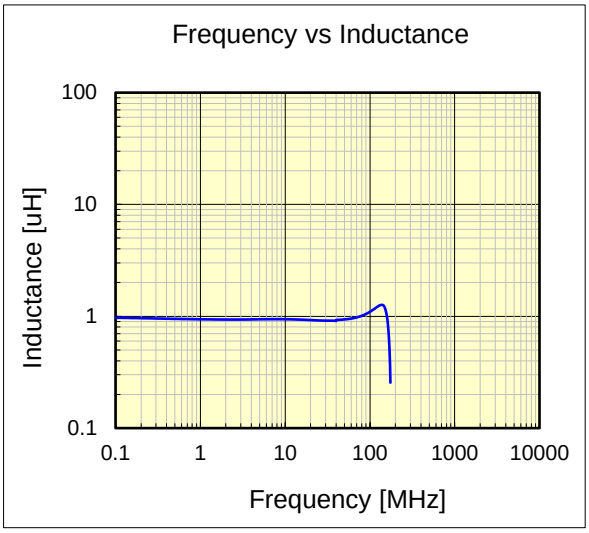
Dimension	unit : mm	unit : inch
Length :	6.0 + / - 0.2	(0.236 + / - 0.008)
Width :	6.0 + / - 0.2	(0.236 + / - 0.008)
Height :	4.5 max.	(0.177 max.)

Inductance :	1.0 uH	(test freq at 0.1MHz)
DC Resistance :	0.014 / 0.0182	ohm (typ / max)
Saturation Current :	9,800 mA (max)	
Temp. rise Current :	4,500 mA (max)	

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







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The products are tested based on the test conditions and methods defined in AEC-Q200.
Please consult with TAIYO YUDEN for the details of the product specification and AEC-Q200 test results, etc., and please review and approve TAIYO YUDEN's product specification before ordering.