

Spec Sheet

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

NRS6045T330MMGKV



■ Features

- Item Summary
33uH±20%, 1.4A, 6.0x6.0x4.5mm
- Lifecycle Stage
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Taping Embossed 1500pcs

■ Products characteristics table

Inductance	33 uH ± 20 %
Case Size (mm)	6.0x6.0
Rated Current (max)	1.4 A
Saturation Current (max)	1.65 A
Temperature Rise Current (max)	1.4 A
DC Resistance (max)	0.1833 Ω
DC Resistance (typ)	0.141 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	6 MHz
Operating Temp. Range	-40 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	6.0 ±0.2 mm
Dimension W	6.0 ±0.2 mm
Dimension H	Max 4.5 mm
Dimension e	1.35 ±0.2 mm
Dimension f	4.0 ±0.2 mm
Dimension ΔI	Typ 2.3 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.



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.

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

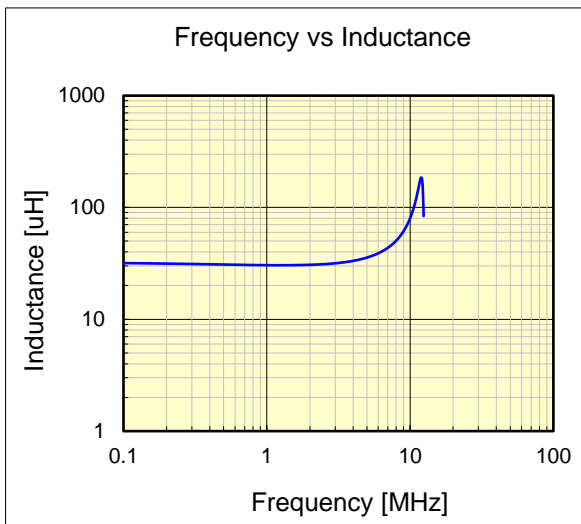
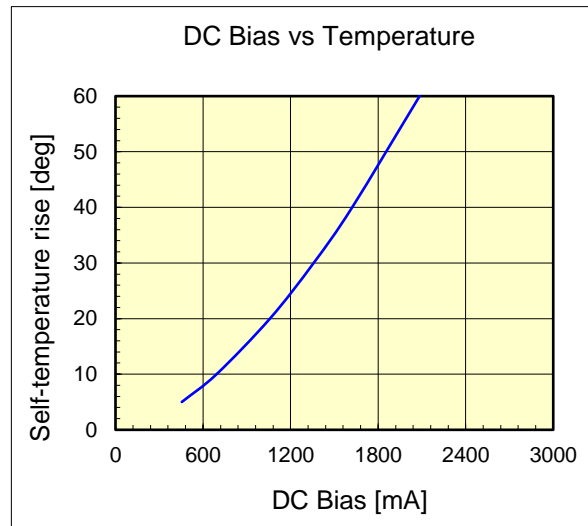
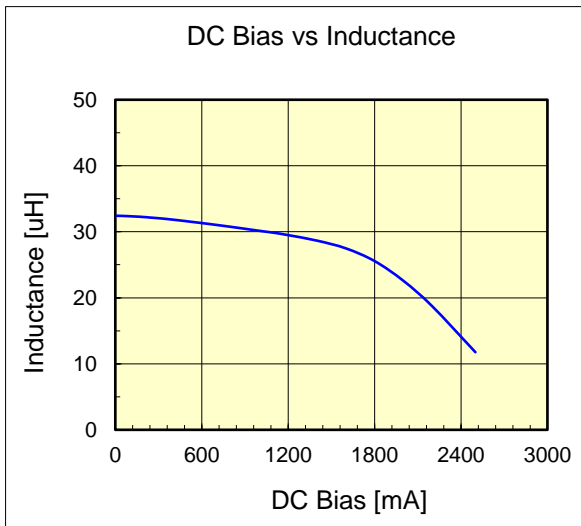
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AEC-Q200 qualified

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 :	33	uH (test freq at 0.1MHz)
DC Resistance :	0.141 / 0.1833	ohm (typ / max)
Saturation Current :	1,650	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		



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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.