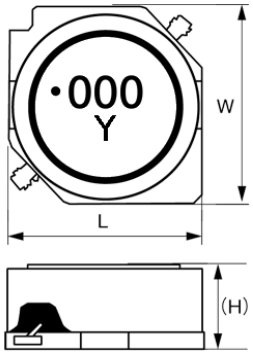
Spec Sheet

SMD Power Inductors (NS series)

NS10145T1R5NNA



Features

- Item Summary

  1.5μH(±30%), 10.34A, 7.99A

- Lifecycle Stage

  Mass Production

- Standard packaging quantity (minimum)

  Taping 2000pcs(500pcs*4reel)

Products characteristics table

CaseSize (EIA/JIS)	-/101101
Inductance	1.5μH(±30%)
Inductance Measuring Frequency	100kHz
Rated Current -Saturation Current	10.34A
Rated Current -Temperature Rise Current	7.99A
DC Resistance (max)	0.0072Ω
Avg. of DC.Resistance	0.006Ω
Self-resonant Frequency (min)	72.1MHz
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

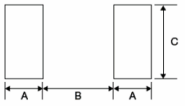
External Dimensions

L	10.1mm ±0.3
W	10.1mm ±0.3
H	4.5mm ±0.35

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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Type	A	B	C
NS 10145	2.5	5.6	3.2
NS 10155	2.5	5.6	3.2
NS 10165	2.5	5.6	3.2
NS 12555	2.5	8.6	3.2
NS 12565	2.5	8.6	3.2
NS 12575	2.5	8.6	3.2

unit:mm

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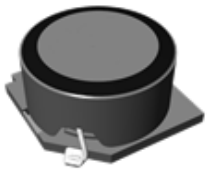

Dimension	unit : mm	unit : inch
Length :	10.1 + / - 0.3	(0.398 + / - 0.012)
Width :	10.1 + / - 0.3	(0.398 + / - 0.012)
Height :	4.5 + / - 0.35	(0.177 + / - 0.014)

Inductance :	1.5	uH	(test freq at 0.1MHz)
DC Resistance :	0.006 / 0.0072		ohm (typ / max)
Saturation Current :	10.34	A (max)	
Temp. rise Current :	7.99	A (max)	

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