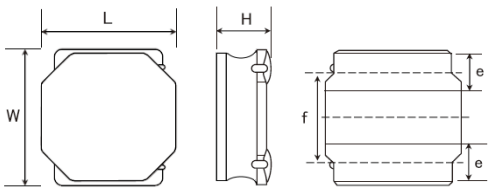
Spec Sheet

SMD Power Inductors (NR series V type)

NRV2010TR47NGF



Features

- Item Summary

  0.47uH±30%, 2A, 2.0x2.0x1.0mm

- Lifecycle Stage

  Mass Production

- Standard packaging quantity (minimum)

  Taping Embossed 2500pcs

Products characteristics table

Inductance	0.47 uH ± 30 %
Case Size (mm)	2.0x2.0
Rated Current (max)	2 A
Saturation Current (max)	2.1 A
Saturation Current (typ)	2.25 A
Temperature Rise Current (max)	2 A
Temperature Rise Current (typ)	2.3 A
DC Resistance (max)	62.4 mΩ
DC Resistance (typ)	52 mΩ
LQ Measuring Frequency	100 kHz
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

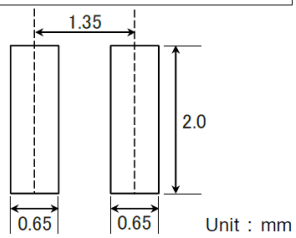
External Dimensions

Dimension L	2.0 ±0.1 mm
Dimension W	2.0 ±0.1 mm
Dimension H	Max 1.0 mm
Dimension e	0.5 ±0.2 mm
Dimension f	1.25 ±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.



2017.04.30

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Dimension	unit : mm	unit : inch
Length :	2.0 + / - 0.1	(0.079 + / - 0.004)
Width :	2.0 + / - 0.1	(0.079 + / - 0.004)
Height :	1.0 max.	(0.039 max.)

Inductance :	0.47 uH	(test freq at 0.1MHz)
DC Resistance :	0.052 / 0.0624	ohm (typ / max)
Saturation Current :	2,100 mA (max)	
Temp. rise Current :	2,000 mA (max)	

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