

# Through Hole Power Inductors

## Token Develops High-Efficiency Coiled Power Inductors (TC1213)

### ▶ Preview

Token has announced a wire-wound power inductor designed for use in the Mother Board of PC and Notebook and various other power devices. The TC1213, measures only 14.0 x 14.5 mm, with a maximum height of 9.5 mm.

Most conventional DC-DC converters use inductors with cores made of relatively expensive metallic materials. By contrast, this product, with a ferrite material, realizes the same DC bias characteristics and other performance features as same-size inductors made with more expensive materials. The TC1213 offers customers much greater design freedom with large current and low DCR by meeting the need to replace power inductors.

Full line products meet RoHS compliant. Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales for more information.

### Features :

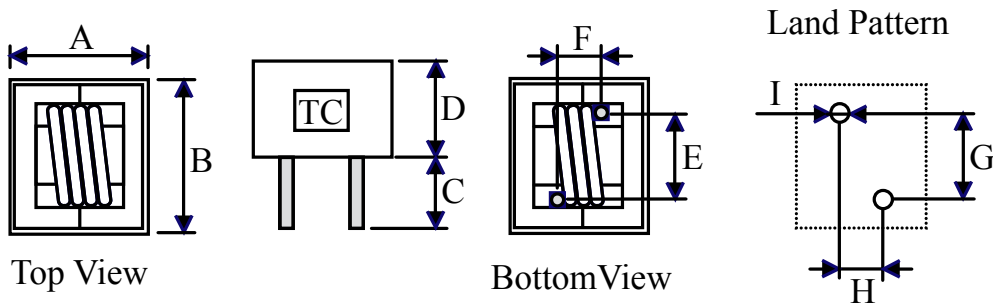
- Large Current and Low DCR.

### Applications :

- Mother Board of PC.
- Mother Board of Notebook.



## Configurations & Dimensions



Type	A(max)	B(max)	C ± 1.0	D(max)	E(Ref.)	F(Ref.)	G	H	I
TC1213	14.0	14.5	5.0	9.5	7.0	5.0	7.5	5.5	1.8
TC1213A	14.0	14.5	5.0	9.5	7.0	5.0	7.5	5.5	1.8
TC1213B	14.5	14.5	5.0	9.5	7.0	5.0	7.5	5.5	1.8

**Note:** Design as Customer's Requested Specifications.

## Electrical Characteristics

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	Peak Current (A) (max)	Irms (A)(max)
TC1213 - R68N	0.68	100	0.0015	40.00	20.00
TC1213A - R33N	0.33	100	0.0015	40.00	20.00
TC1213B - 1R0N	1.00	100	0.0015	35.00	20.00

**Note:** Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C

Inductance drop = 10% typ. at Peak Current.

ΔT=40°C rise at Irms.

## How to Order

TC1213B

❶

1R0

❷

N

❸

❶ Part Number: TC1213, TC1213A, TC1213B

❷ Inductance

Code	Inductance
R68	0.68μH
1R0	1.00μH

❸ Tolerance

Code	Tolerance
N	30%

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