

## Excellent Integrated System Limited

Stocking Distributor

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[TDK Corporation](#)

[VLS3010T-1R0N1R9](#)

For any questions, you can email us directly:

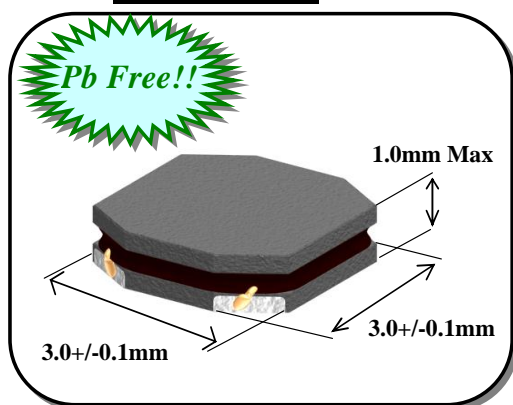
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**New products!!**

## VLS3010 TYPE

SMD Power Inductor

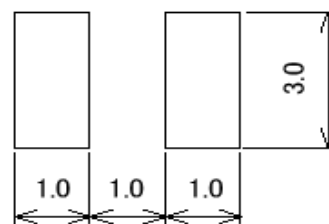
### Component Image & Dimensions



### Features :

- a) Miniature Size :  
**Mount Area : 3.0mm x 3.0mm**  
**Low Profile : 1.0mm Max. Height**
- b) Generic use for portable DC/DC Converter.
- c) High Magnetic Shield Construction should actualize  
 High Resolution for EMC Protection.
- d) Automatic Mounting in Tape&Reel Package.

### Recommended Land Pattern



unit: mm

### Applications :

DVC , DSC , PDA , LCD Display  
 Cellular Phone, HDD etc.

### Electrical Specification

TDK Identification	Inductance [ $\mu$ H] Tol. (%)	Test Freq. [MHz]	DC Resistance [Ohm]		Rated DC Current [A]		
			(Max.)	(Typ.)	Idc1 (Max.)	(Typ.)	Idc2 (Typ.)
VLS3010T- 1R0N1R9	1.0+/- 30%	1.0	0.072	0.060	1.7	1.9	2.1
VLS3010T- 1R5N1R6	1.5+/- 30%	1.0	0.085	0.071	1.4	1.5	1.9
VLS3010T- 2R2M1R3	2.2+/- 20%	1.0	0.116	0.097	1.2	1.4	1.7
VLS3010T- 3R3M1R1	3.3+/- 20%	1.0	0.156	0.13	1.1	1.3	1.5
VLS3010T- 4R7MR80	4.7+/- 20%	1.0	0.204	0.17	0.8	0.9	1.3
VLS3010T- 6R8MR75	6.8+/- 20%	1.0	0.312	0.26	0.75	0.85	1.0
VLS3010T- 100MR65	10+/- 20%	1.0	0.468	0.39	0.65	0.70	0.8
VLS3010T- 150MR55	15+/- 20%	1.0	0.612	0.51	0.55	0.65	0.7
VLS3010T- 220MR46	22+/- 20%	1.0	0.90	0.75	0.46	0.52	0.6

Note) Idc 1 : Depend on the Inductance Saturation. (-30% Reduction from Nominal L Value)

Idc 2 : Depend on the Self Temperature Rise (40deg.C Typ.)

Operating Temperature Range : -40deg. C ~ +105deg.C (including Self Temp. Rise)

## INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS

### ◆ Inductance vs D.C. Current Comparison

