

## Excellent Integrated System Limited

Stocking Distributor

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[TDK Corporation](#)  
[VLF4010ST-1R0N1R9](#)

For any questions, you can email us directly:

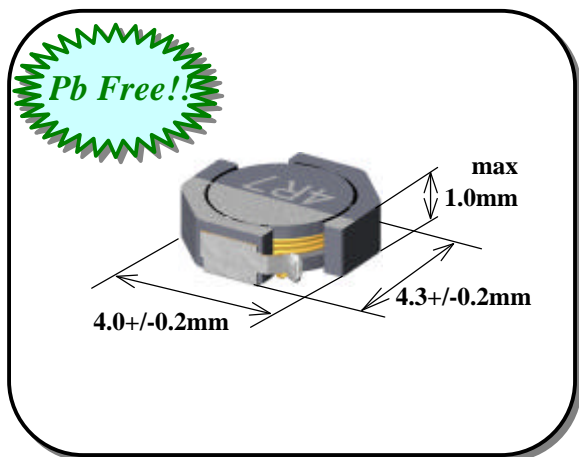
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**New Products!!**

# VLF4010ST-TYPE

*SMD Power Inductor*

## Component Image & Dimensions



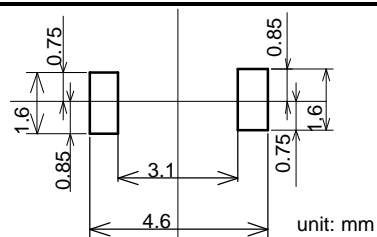
### Features :

- a) Miniature Size :  
**Mount Area : 4.0mm x 4.3mm**  
**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.

### Applications :

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

### Recommended Land Pattern



### Electrical Specification

TDK Identification	Inductance[ $\mu$ H]		Test Freq. (kHz)	DC Resistance[ohm]		Rated DC Current*[A]	
	at 0A	Tol. (%)		Spec. (max.)	(Typ.)	Idc 1 (max.)	Idc 2 (Typ.)
VLF4010ST- 1R0N1R9	1.0	+/-30%	1000	0.060	0.050	2.1	1.9
VLF4010ST- 2R2M1R4	2.2	+/-20%	1000	0.081	0.068	1.4	1.6
VLF4010ST- 3R3M1R2	3.3	+/-20%	1000	0.10	0.081	1.2	1.5
VLF4010ST- 4R7M1R0	4.7	+/-20%	1000	0.12	0.10	1.0	1.3
VLF4010ST- 6R8MR85	6.8	+/-20%	1000	0.18	0.15	0.85	1.1
VLF4010ST- 100MR80	10.0	+/-20%	1000	0.30	0.25	0.80	0.86

Note \*) Idc 1 : Depend on the Inductance Saturation. (-30% Reduction from Nominal L Value)  
 Idc 2 : Depend on the Self Temperature Rise (40 deg.C Typ.)

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

## INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS

