

# **Excellent Integrated System Limited**

Stocking Distributor

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TDK Corporation VLF3014AT-2R2M1R2

For any questions, you can email us directly: sales@integrated-circuit.com

## **Distributor of TDK Corporation: Excellent Integrated System Limited**

Datasheet of VLF3014AT-2R2M1R2 - FIXED IND 2.2UH 1.2A 100 MOHM Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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# SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

**Conformity to RoHS Directive** 

### VLF Series VLF3014A

## **FEATURES**

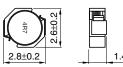
• Mount area: 2.6×2.8mm Low profile: 1.4mm max. height

- · Generic use for portable DC to DC converter line.
- · High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- · The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

#### **APPLICATIONS**

Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

#### **SHAPES AND DIMENSIONS**

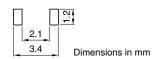




Dimensions in mm



## RECOMMENDED PC BOARD PATTERN

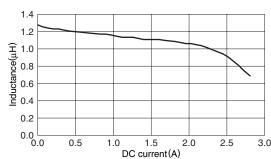


### **ELECTRICAL CHARACTERISTICS**

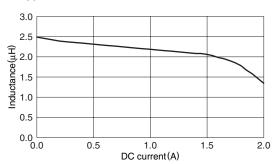
Part No.	Inductance [at 1/2 Idc1]*4 (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance( $\Omega$ )		Rated current(A)		
				max.	typ.	Based on inductance change	Based on temperature	Based on inductance
						Idc1 max.*1		change Idc3 typ.*3
VLF3014AT-1R0N1R8	1	±30	100	0.048	0.042	2.5	1.8	2.5
VLF3014AT-2R2M1R2	2.2	±20	100	0.1	0.091	1.7	1.2	1.6
VLF3014AT-3R3M1R0	3.3	±20	100	0.15	0.13	1.3	1	1.1
VLF3014AT-4R7MR90	4.7	±20	100	0.2	0.17	1.2	0.9	0.8
VLF3014AT-6R8MR72	6.8	±20	100	0.31	0.27	1	0.72	0.78
VLF3014AT-100MR59	10	±20	100	0.46	0.4	0.8	0.59	0.65
VLF3014AT-220MR37	22	±20	100	1.20	1	0.52	0.37	0.43

<sup>\*1</sup> Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics

## TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS **VLF3014AT-1R0N1R8**



#### VLF3014AT-2R2M1R2



· Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

<sup>\*2</sup> Rated current based on increasing product temperature: Current when temperature of the product reaches +40°C

<sup>\*3</sup> Rated current based on inductance variation: Current when inductance decreases by 10% of the initial value due to direct current superimposed

<sup>\*4</sup> Inductance is at 1/2 Idc1 power distribution. The L vaule at 0A is higher than the guaranteed performance.

<sup>•</sup> Operating temperature range: -40 to +105°C (Including self-temperature rise)

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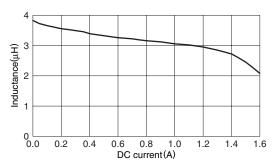
Datasheet of VLF3014AT-2R2M1R2 - FIXED IND 2.2UH 1.2A 100 MOHM

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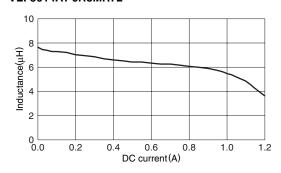
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## **公TDK**

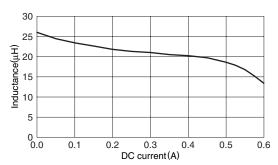
## TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF3014AT-3R3M1R0



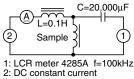
#### VLF3014AT-6R8MR72



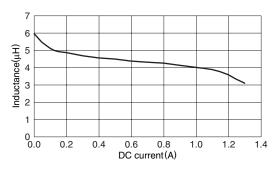
#### VLF3014AT-220MR37



## **TEST CIRCUIT**



#### VLF3014AT-4R7MR90



#### VLF3014AT-100MR59

