

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

**Conformity to RoHS Directive** 

## VLCF Series VLCF4018-2

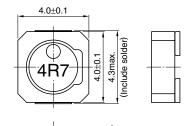
#### **FEATURES**

- Mount area: 4×4mm
   Low profile: 1.8mm 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,  $\ensuremath{\mathsf{HDDs}}$  , and  $\ensuremath{\mathsf{DSCs}}$ 

#### SHAPES AND DIMENSIONS







## Dimensions in mm

# 45, 2.5

Dimensions in mm

#### **ELECTRICAL CHARACTERISTICS**

Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance( $\Omega$ )		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLCF4018T-1R6N1R7-2	1.6	±30	100	0.051	0.044	1.72	2.42
VLCF4018T-2R2N1R4-2	2.2	±30	100	0.06	0.052	1.44	2.23
VLCF4018T-3R3N1R2-2	3.3	±30	100	0.079	0.069	1.26	1.93
VLCF4018T-4R7N1R0-2	4.7	±30	100	0.101	0.088	1.07	1.72
VLCF4018T-6R8NR94-2	6.8	±30	100	0.124	0.108	0.94	1.55
VLCF4018T-100MR74-2	10	±20	100	0.188	0.163	0.74	1.26
VLCF4018T-150MR59-2	15	±20	100	0.268	0.233	0.59	1.1
VLCF4018T-220MR49-2	22	±20	100	0.369	0.321	0.49	0.9
VLCF4018T-330MR42-2	33	±20	100	0.54	0.469	0.42	0.74
VLCF4018T-470MR34-2	47	±20	100	0.76	0.661	0.34	0.62

<sup>\*</sup> Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

<sup>•</sup> 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.

All specifications are subject to change without notice.