



**THE DATASHEET OF
VLF4014ST-100M1R0**



SMD Inductors(Coils)

For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

VLF Series VLF4014S

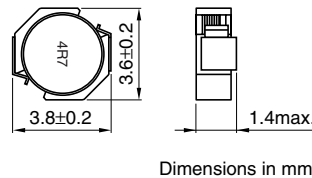
FEATURES

- Mount area: 3.6×3.8mm
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 reel package.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

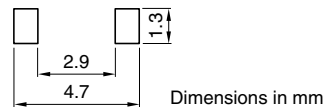
Power source inductor for mobile devices such as mobile phones, HDDs, and DSCs

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance(%)	Test frequency (MHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLF4014ST-1R0N2R3	1	±30	1	0.049	0.041	2.7	2.3
VLF4014ST-2R2M1R9	2.2	±20	1	0.072	0.06	2	1.9
VLF4014ST-3R3M1R6	3.3	±20	1	0.107	0.089	1.7	1.6
VLF4014ST-4R7M1R4	4.7	±20	1	0.14	0.11	1.4	1.4
VLF4014ST-6R8M1R2	6.8	±20	1	0.19	0.16	1.2	1.2
VLF4014ST-100M1R0	10	±20	1	0.26	0.22	1	1

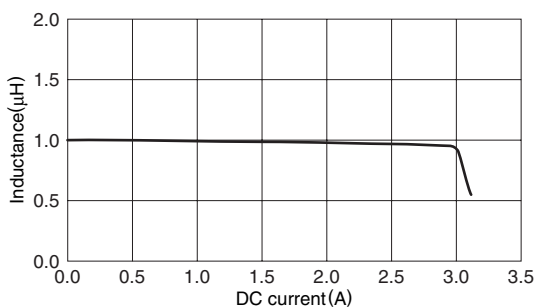
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

- Operating temperature range: -40 to +105°C (Including self-temperature rise)

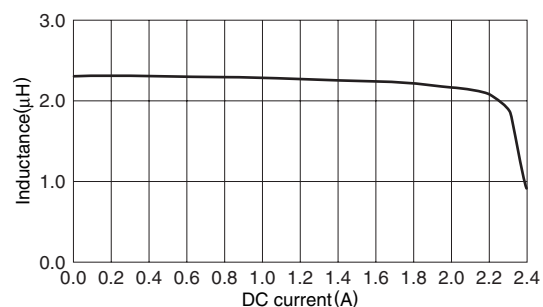
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLF4014ST-1R0N2R3



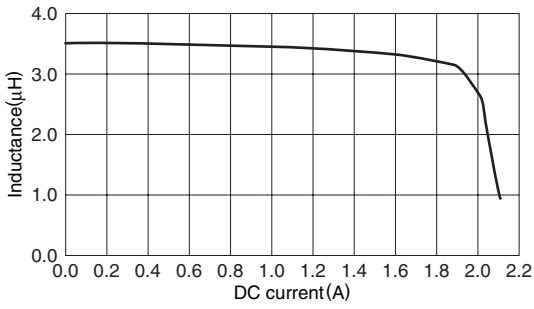
VLF4014ST-2R2M1R9



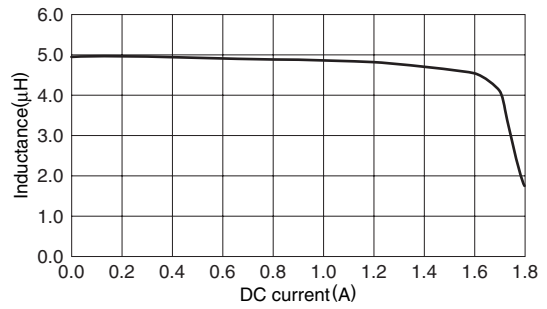
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

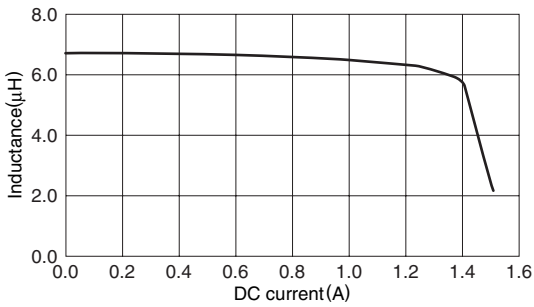
TYPICAL ELECTRICAL CHARACTERISTICS
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS
VLF4014ST-3R3M1R6



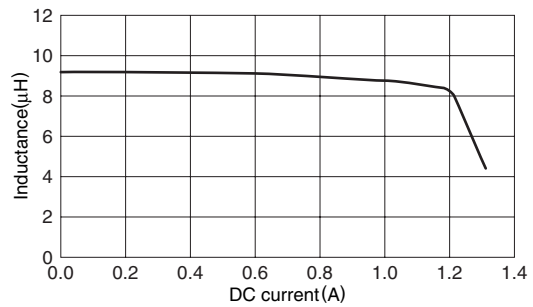
VLF4014ST-4R7M1R4



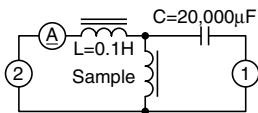
VLF4014ST-6R8M1R2



VLF4014ST-100M1R0



TEST CIRCUIT



1: LCR meter 4285A f=1MHz
2: DC constant current

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 [TDK Corporation](#) Information

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