

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

Conformity to RoHS Directive

VLF Series VLF5014S

FEATURES

· Miniature size

Mount area: 4.6×4.8mm

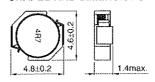
Low profile: 1.4mm max. height

- · 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



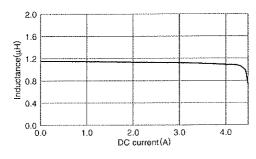
Dimensions in mm

ELECTRICAL CHARACTERISTICS

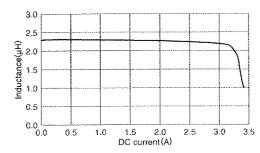
Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (MHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLF5014ST-1R0N2R7	1	±30	1	0.05	0.041	4	2.7
VLF5014ST-2R2M2R3	2.2	±20	1	0.073	0.059	3	2.3
VLF5014ST-3R3M2R0	3.3	±20	1	0.1	0.077	2.3	2
VLF5014ST-4R7M1R7	4.7	±20	1	0.12	0.098	2	1.7
VLF5014ST-6R8M1R4	6.8	±20	1	0.2	0.16	1.6	1.4
VLF5014ST-100M1R2	10	±20	1	0.25	0.21	1.5	1.2

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 failen by 30%, whichever is smaller.

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF5014ST-1R0N2R7



VLF5014ST-2R2M2R3

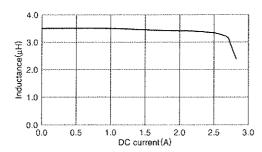


[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)

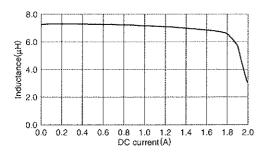
Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.

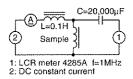
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF5014ST-3R3M2R0



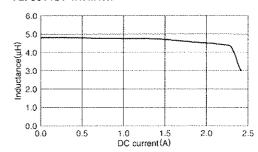
VLF5014ST-6R8M1R4



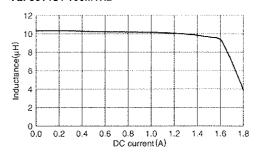
TEST CIRCUIT



VLF5014ST-4R7M1R7



VLF5014ST-100M1R2



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