

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

Conformity to RoHS Directive

VLS Series VLS252015

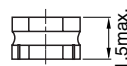
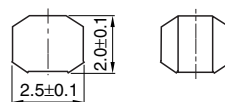
FEATURES

- Miniature size
Mount area: 2.5×2mm
Height: 1.5mm max.
- 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 do not contain lead and support lead-free soldering.

APPLICATIONS

DVCs, DSCs, PDAs, LCD displays, cellular phones, HDDs, etc.

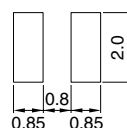
SHAPES AND DIMENSIONS



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)* Based on inductance change		Based on temperature rise typ.
				max.	typ.	max.	typ.	
VLS252015T-1R0N1R7	1	±30	1	0.082	0.068	2.3	2.62	1.7
VLS252015T-1R5N1R4	1.5	±30	1	0.12	0.1	1.9	2.18	1.4
VLS252015T-2R2M1R2	2.2	±20	1	0.16	0.133	1.7	1.9	1.2
VLS252015T-3R3M1R0	3.3	±20	1	0.218	0.182	1.4	1.57	1
VLS252015T-4R7MR89	4.7	±20	1	0.318	0.265	1.2	1.35	0.89
VLS252015T-6R8MR73	6.8	±20	1	0.48	0.4	1	1.13	0.73
VLS252015T-100MR66	10	±20	1	0.588	0.49	0.82	0.93	0.66

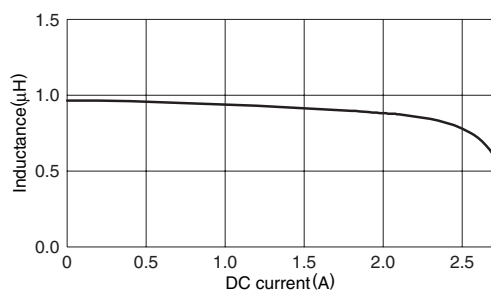
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

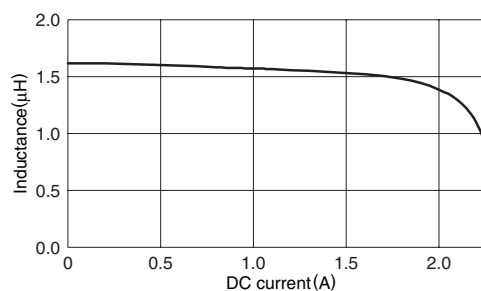
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLS252015T-1R0N1R7



VLS252015T-1R5N1R4

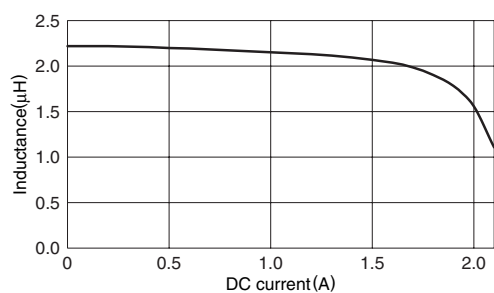
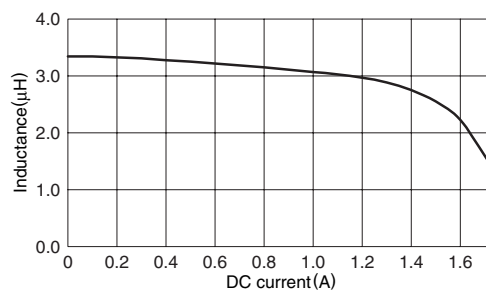
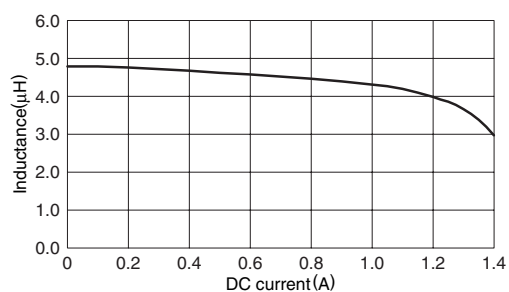
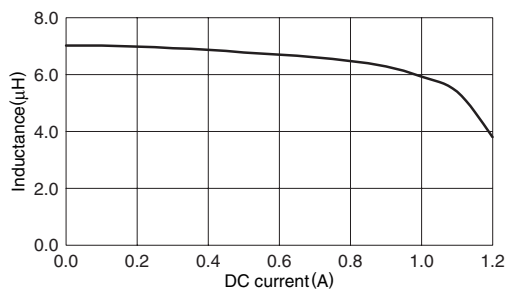
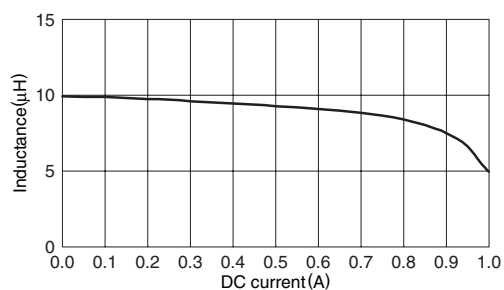


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

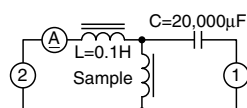
- All specifications are subject to change without notice.

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLS252015T-2R2M1R2

VLS252015T-3R3M1R0

VLS252015T-4R7MR89

VLS252015T-6R8MR73

VLS252015T-100MR66


TEST CIRCUIT



- 1: LCR meter 4285A $f=1\text{MHz}$
 2: DC constant current