

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

Conformity to RoHS Directive

VLS Series VLS252015

FEATURES

Miniature size

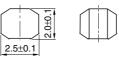
Mount area: 2.5×2mm Height: 1.5mm max.

- 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 real 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



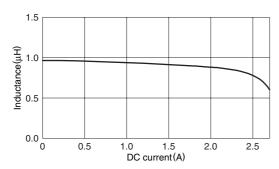
Dimensions in mm

ELECTRICAL CHARACTERISTICS

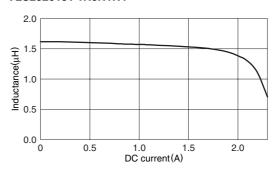
Part No.	Inductance (µH)	Inductance tolerance (%)	Test frequency (MHz)	DC resistance (Ω)		Rated current(A)*		
						Based on inductance change		Based on
				max.	typ.	max.	typ.	temperature rise typ.
VLS252015T-1R0N1R7	1	±30	1	0.082	0.068	2.3	2.62	1.7
VLS252015T-1R5N1R4	1.5	±30	1	0.12	0.1	1.9	2.18	1.4
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.

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLS252015T-1R0N1R7



VLS252015T-1R5N1R4

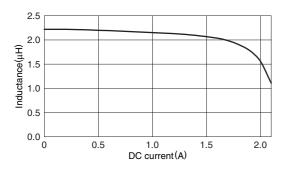


• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

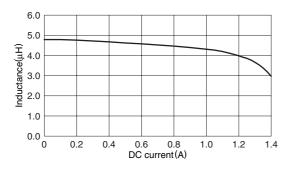
[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)



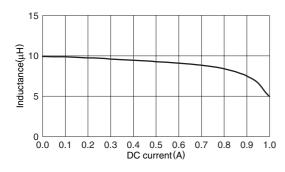
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLS252015T-2R2M1R2



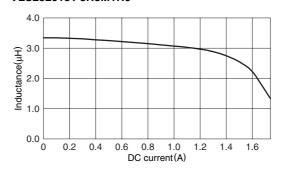
VLS252015T-4R7MR89



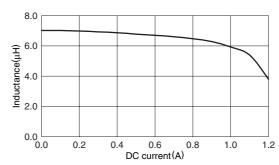
VLS252015T-100MR66



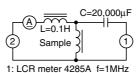
VLS252015T-3R3M1R0



VLS252015T-6R8MR73



TEST CIRCUIT



2: DC constant current

[•] All specifications are subject to change without notice.