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

Conformity to RoHS Directive

VLS Series VLS252010

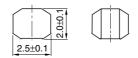
FEATURES

- Miniature size Mount area: 2.5×2mm Height: 1.0mm 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







RECOMMENDED PC BOARD PATTERN



Dimensions in mm

Dimensions in mm

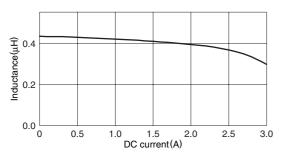
ELECTRICAL CHARACTERISTICS

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.
VLS252010T-R47N	0.47	±30	1	0.048	0.04	2.5	2.8	2.3
VLS252010T-R68N	0.68	±30	1	0.064	0.053	2.2	2.4	2
VLS252010T-1R0N	1	±30	1	0.085	0.071	1.8	2	1.7
VLS252010T-1R5N	1.5	±30	1	0.128	0.107	1.5	1.7	1.4
VLS252010T-2R2M	2.2	±20	1	0.19	0.158	1.2	1.4	1.1
VLS252010T-3R3M	3.3	±20	1	0.304	0.253	1	1.2	0.94
VLS252010T-4R7M	4.7	±20	1	0.44	0.367	0.88	0.98	0.78
VLS252010T-6R8M	6.8	±20	1	0.541	0.451	0.74	0.82	0.7
VLS252010T-100M	10	±20	1	0.854	0.712	0.59	0.65	0.52

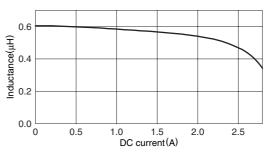
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLS252010T-R47N



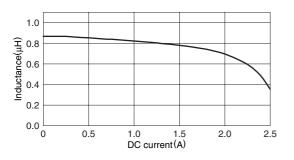
VLS252010T-R68N



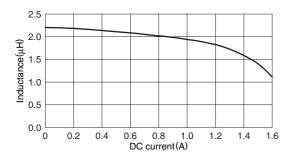
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

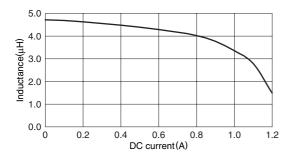
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLS252010T-1R0N



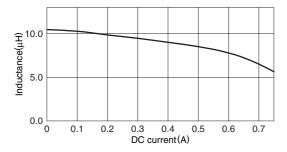
VLS252010T-2R2M



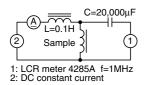
VLS252010T-4R7M



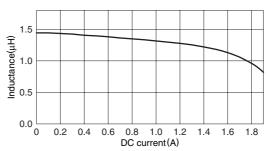
VLS252010T-100M



TEST CIRCUIT



VLS252010T-1R5N



VLS252010T-3R3M

