THE DATASHEET OF

VLS3015T-1R5N1R6

TDK

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

Conformity to RoHS Directive

VLS Series VLS3015

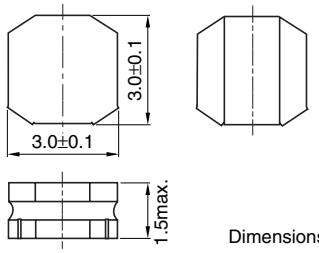
FEATURES

- Miniature size
  Mount area: 3×3mm
  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

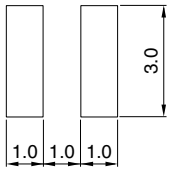
DVCs, DSCs, PDAs, LCD displays, cellular phones, HDDs, etc.

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 temperature rise
				max.	typ.	max.	typ.	typ.
VLS3015T-1R0N2R0	1	±30	1	0.058	0.048	2	2.2	2.2
VLS3015T-1R5N1R6	1.5	±30	1	0.074	0.062	1.6	1.8	2
VLS3015T-2R2M1R4	2.2	±20	1	0.084	0.07	1.4	1.5	1.8
VLS3015T-3R3M1R2	3.3	±20	1	0.112	0.093	1.2	1.3	1.6
VLS3015T-4R7MR99	4.7	±20	1	0.136	0.113	0.99	1.1	1.4
VLS3015T-6R8MR86	6.8	±20	1	0.211	0.176	0.86	0.96	1.1
VLS3015T-100MR70	10	±20	1	0.276	0.234	0.7	0.78	1
VLS3015T-150MR58	15	±20	1	0.422	0.352	0.58	0.64	0.8
VLS3015T-220MR45	22	±20	1	0.622	0.518	0.45	0.5	0.6
VLS3015T-330MR36	33	±20	1	0.959	0.799	0.36	0.4	0.5
VLS3015T-470MR31	47	±20	1	1.406	1.172	0.31	0.34	0.4

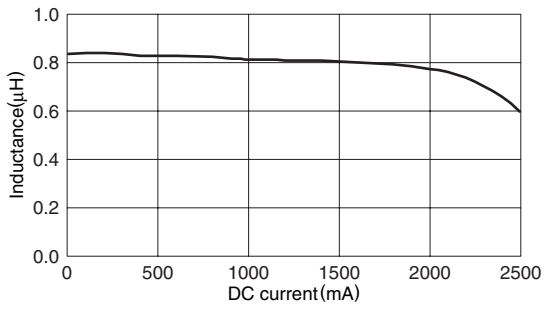
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

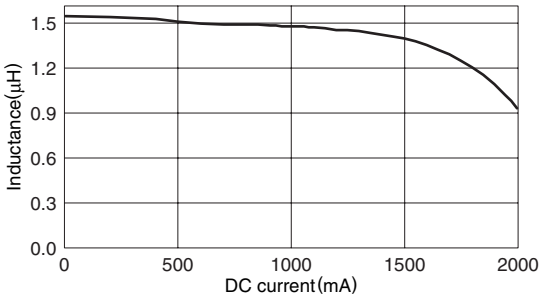
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLS3015T-1R0N2R0



VLS3015T-1R5N1R6

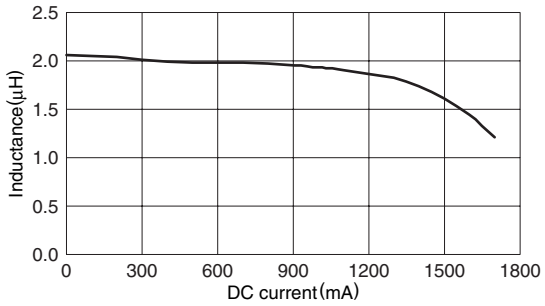


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

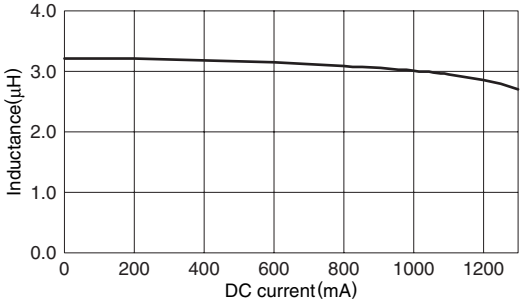
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

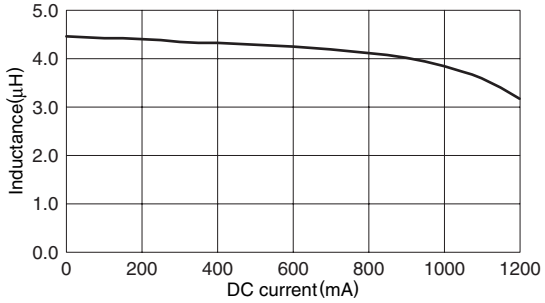
VLS3015T-2R2M1R4



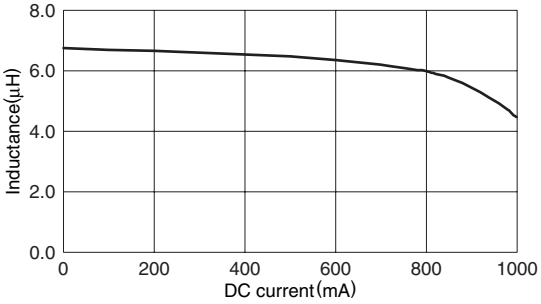
VLS3015T-3R3M1R2



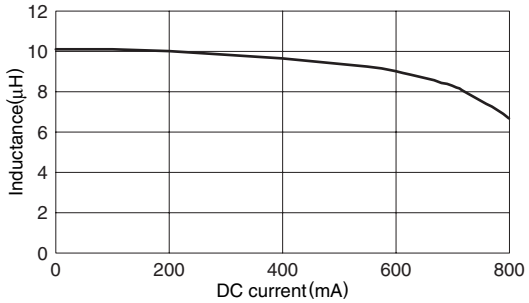
VLS3015T-4R7MR99



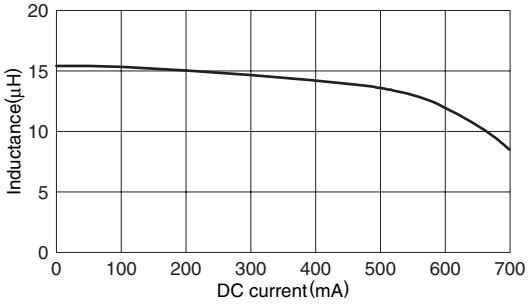
VLS3015T-6R8MR86



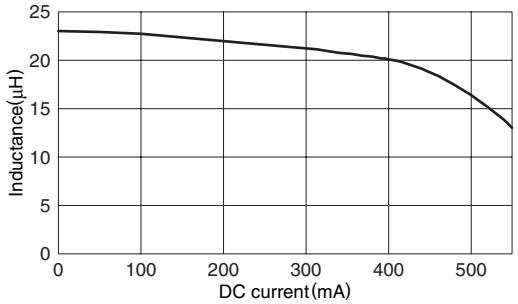
VLS3015T-100MR70



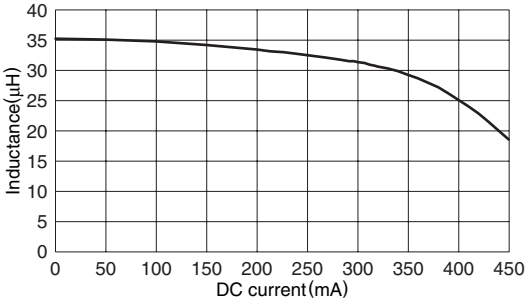
VLS3015T-150MR58



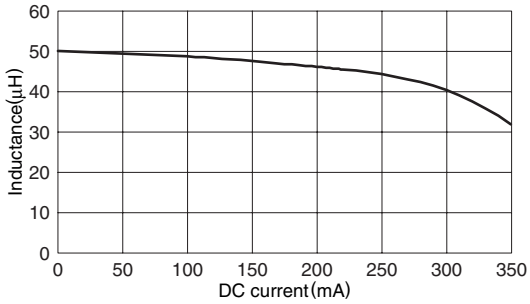
VLS3015T-220MR45



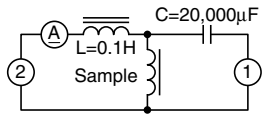
VLS3015T-330MR36



VLS3015T-470MR31



TEST CIRCUIT



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

Looking for pricing, stock, or lifecycle information?

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- TDK Corporation Information

Optimize Your Supply Chain with WIN SOURCE Solutions

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- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management