

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

Conformity to RoHS Directive

## VLS Series VLS252015E

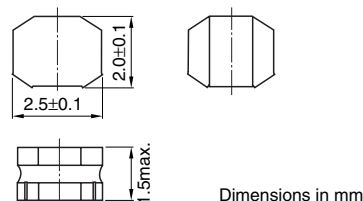
### FEATURES

- 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.

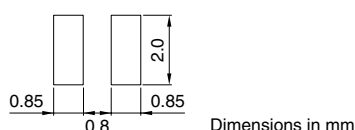
### APPLICATIONS

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

### SHAPES AND DIMENSIONS



### RECOMMENDED PC BOARD PATTERN



### ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance (%)	Test frequency (MHz)	DC resistance (Ω)		Rated current(A)*		Based on temperature rise typ.
				max.	typ.	Based on inductance change max.	typ.	
VLS252015ET-1R0N	1.0	±30	1.0	0.082	0.068	1.95	2.20	1.75
VLS252015ET-1R5N	1.5	±30	1.0	0.120	0.100	1.75	1.95	1.45
VLS252015ET-2R2M	2.2	±20	1.0	0.160	0.133	1.50	1.70	1.25
VLS252015ET-3R3M	3.3	±20	1.0	0.219	0.182	1.20	1.35	1.05
VLS252015ET-4R7M	4.7	±20	1.0	0.318	0.265	1.00	1.15	0.89
VLS252015ET-6R8M	6.8	±20	1.0	0.480	0.400	0.85	0.95	0.73
VLS252015ET-100M	10	±20	1.0	0.588	0.490	0.72	0.80	0.66

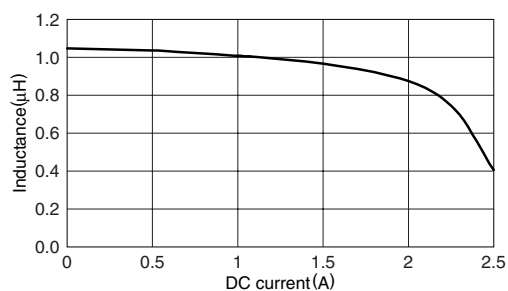
\* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

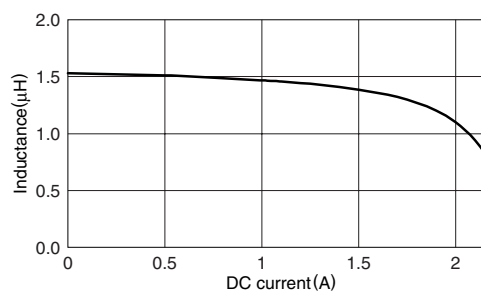
### TYPICAL ELECTRICAL CHARACTERISTICS

#### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

##### VLS252015ET-1R0N



##### VLS252015ET-1R5N



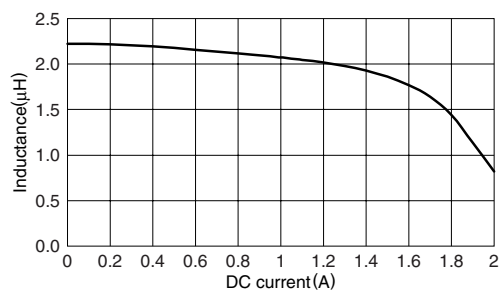
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

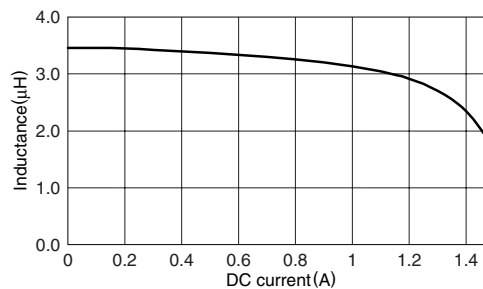
## TYPICAL ELECTRICAL CHARACTERISTICS

### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

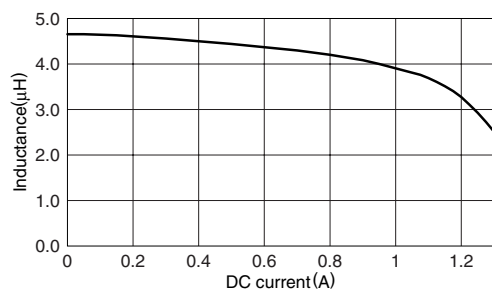
#### VLS252015ET-2R2M



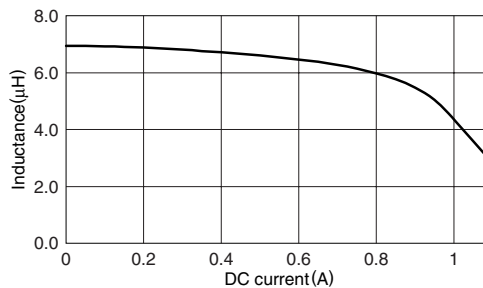
#### VLS252015ET-3R3M



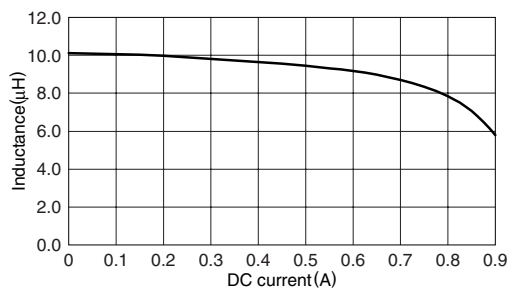
#### VLS252015ET-4R7M



#### VLS252015ET-6R8M



#### VLS252015ET-100M



#### TEST CIRCUIT

