

SMD Inductors(Coils)

For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

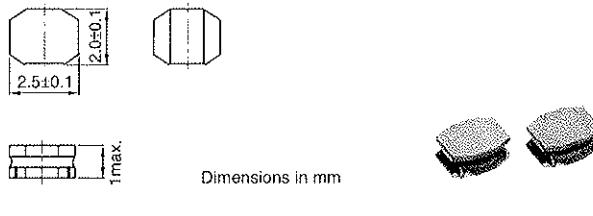
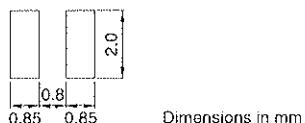
VLS Series VLS252010

FEATURES

- Miniature size
Mount area: 2.5x2mm
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 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**

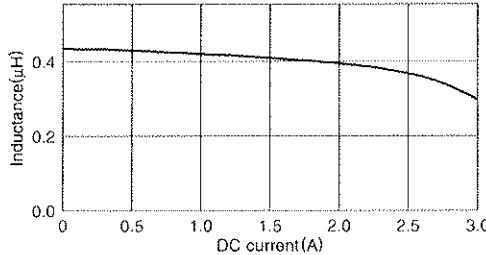
| Part No. | Inductance (μ H) | Inductance tolerance (%) | Test frequency (MHz) | DC resistance (Ω) | | Rated current(A)* | | Based on temperature rise typ. |
|-----------------|--------------------------|--------------------------------|-------------------------|-------------------------------|-------|-------------------|------|--------------------------------------|
| | | | | max. | typ. | max. | 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.

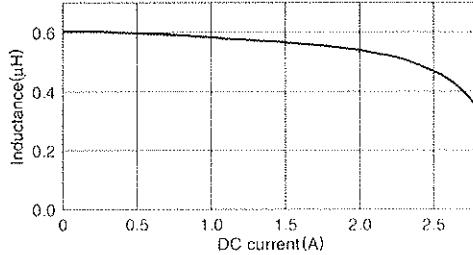
• Operating temperature range: -40 to +105°C (Including self-temperature rise)

TYPICAL ELECTRICAL CHARACTERISTICS**INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS**

VLS252010T-R47N

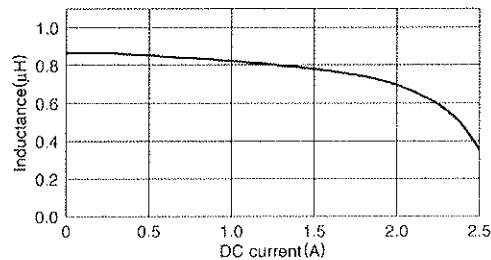
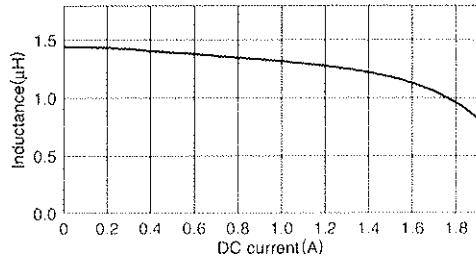
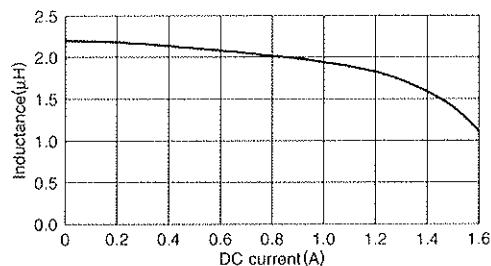
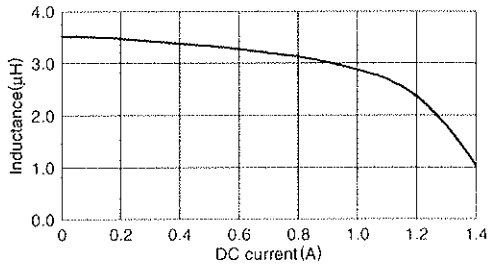
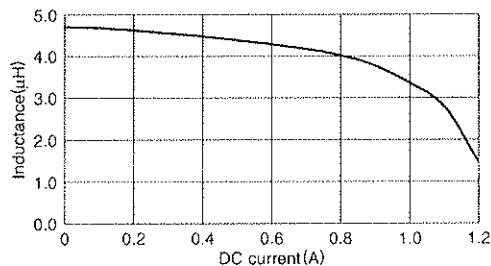
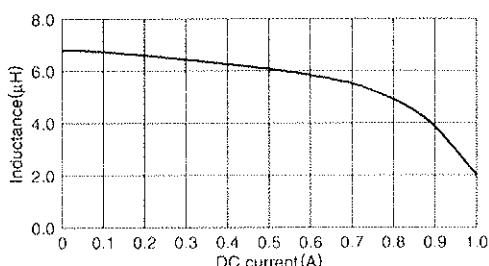
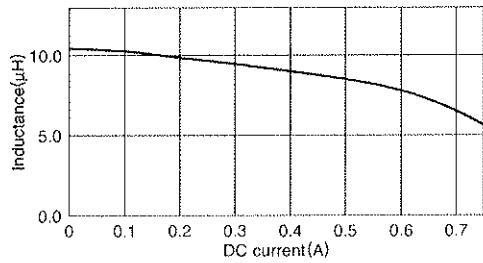
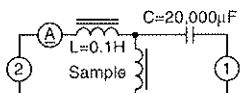


VLS252010T-R68N



• 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-1R5N

VLS252010T-2R2M

VLS252010T-3R3M

VLS252010T-4R7M

VLS252010T-6R8M

VLS252010T-100M

TEST CIRCUIT


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