

SMD Inductors(Coils)

For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

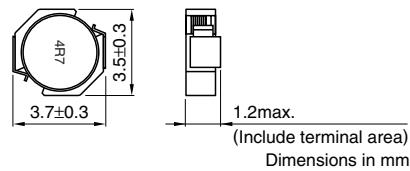
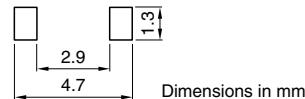
VLF Series VLF4012A

FEATURES

- Miniature size
Mount area: 3.5×3.7mm
Low profile: 1.2mm max. height
- 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 (kHz)	DC resistance(Ω)		Rated current(A)* Based on inductance change max.	Based on temperature rise typ.
				max.	typ.		
VLF4012AT-1R5M1R6	1.5	±20	100	0.079	0.069	1.8	1.6
VLF4012AT-2R2M1R5	2.2	±20	100	0.087	0.076	1.5	1.5
VLF4012AT-3R3M1R3	3.3	±20	100	0.12	0.1	1.3	1.3
VLF4012AT-4R7M1R1	4.7	±20	100	0.16	0.14	1.1	1.1
VLF4012AT-6R8MR96	6.8	±20	100	0.23	0.2	0.96	0.97
VLF4012AT-100MR79	10	±20	100	0.35	0.3	0.80	0.79
VLF4012AT-150MR63	15	±20	100	0.53	0.46	0.63	0.64
VLF4012AT-220MR51	22	±20	100	0.82	0.71	0.52	0.51
VLF4012AT-330MR39	33	±20	100	1.4	1.2	0.44	0.39
VLF4012AT-470MR30	47	±20	100	2.3	2.0	0.36	0.30

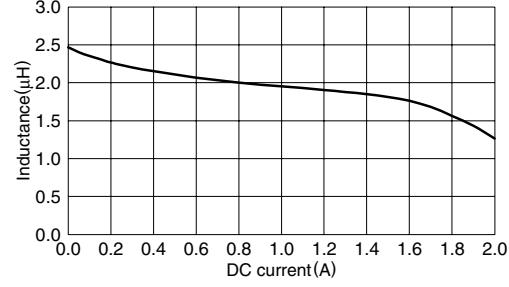
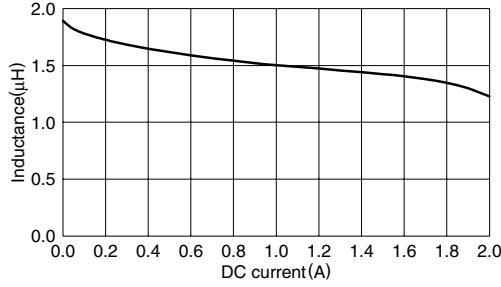
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

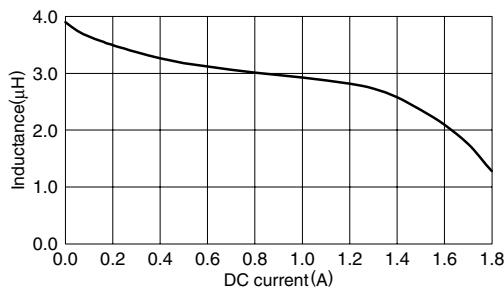
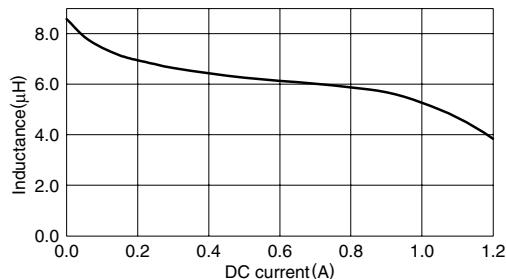
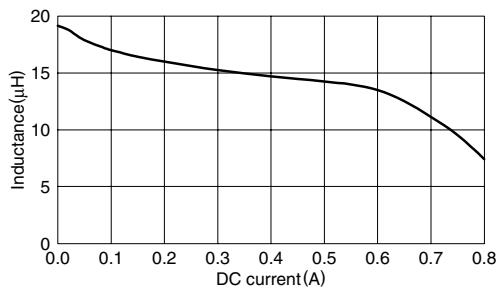
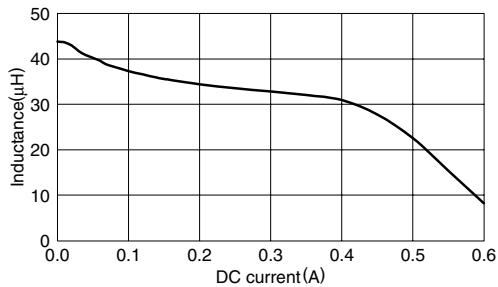
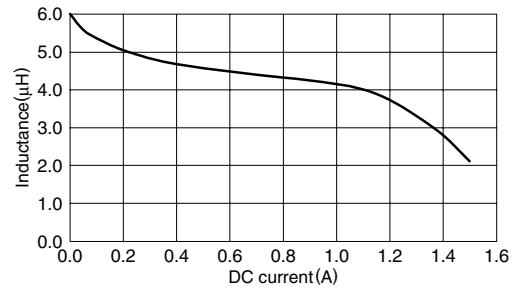
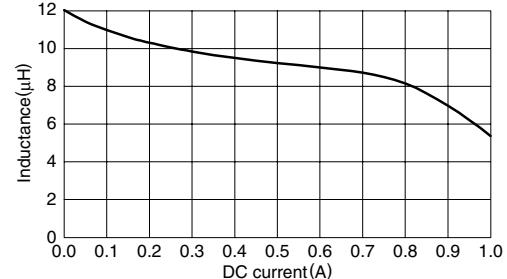
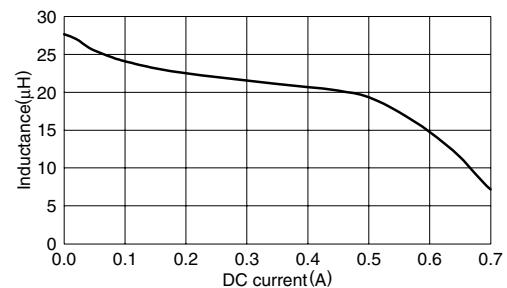
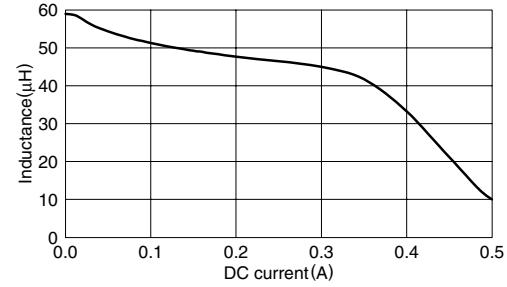
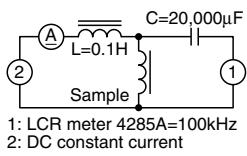
TYPICAL ELECTRICAL CHARACTERISTICS**INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS**

VLF4012AT-1R5M1R6

VLF4012AT-2R2M1R5



• All specifications are subject to change without notice.

TYPICAL ELECTRICAL CHARACTERISTICS
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS
VLF4012AT-3R3M1R3

VLF4012AT-6R8MR96

VLF4012AT-150MR63

VLF4012AT-330MR39

VLF4012AT-4R7M1R1

VLF4012AT-100MR79

VLF4012AT-220MR51

VLF4012AT-470MR30

TEST CIRCUIT


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