

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

Conformity to RoHS Directive

VLF Series VLF4012A

FEATURES

· Miniature size

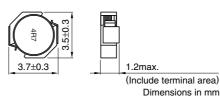
Mount area: 3.5×3.7mm Low profile: 1.2mm max. height

- 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 real package.
- The products do not contain lead and support lead-free soldering

APPLICATIONS

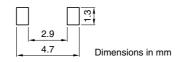
DVCs, DSCs, PDAs, LCD displays, Cellular phones, HDDs, etc.

SHAPES AND DIMENSIONS





RECOMMENDED PC BOARD PATTERN

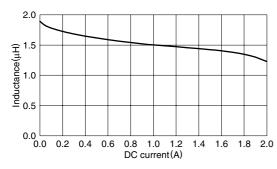


ELECTRICAL CHARACTERISTICS

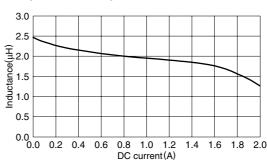
Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLF4012AT-1R5M1R6	1.5	±20	100	0.079	0.069	1.8	1.6
VLF4012AT-2R2M1R5	2.2	±20	100	0.087	0.076	1.5	1.5
VLF4012AT-3R3M1R3	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.

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF4012AT-1R5M1R6



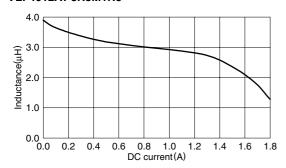
VLF4012AT-2R2M1R5



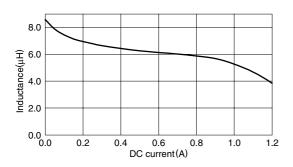
[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)

[•] All specifications are subject to change without notice.

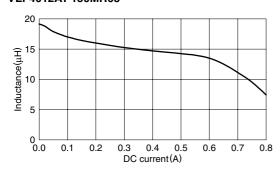
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF4012AT-3R3M1R3



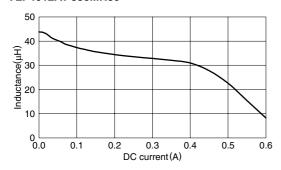
VLF4012AT-6R8MR96



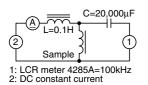
VLF4012AT-150MR63



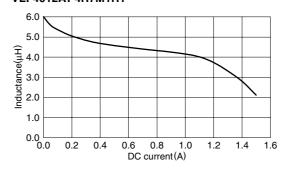
VLF4012AT-330MR39



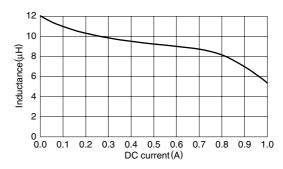
TEST CIRCUIT



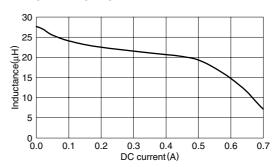
VLF4012AT-4R7M1R1



VLF4012AT-100MR79



VLF4012AT-220MR51



VLF4012AT-470MR30

