

Inductors

For Power Line

SMD

VLF Series VLF3012A Type

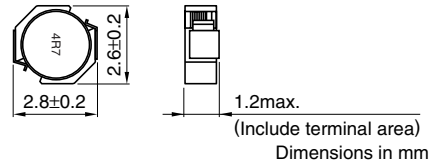
FEATURES

- Miniature size
Mount area: 2.6×2.8mm
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.

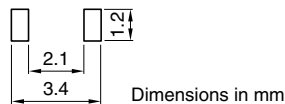
APPLICATIONS

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

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLF3012AT-1R5N1R2	1.5	±30	100	0.068	0.059	1.2	1.6
VLF3012AT-2R2M1R0	2.2	±20	100	0.1	0.088	1.0	1.3
VLF3012AT-3R3MR87	3.3	±20	100	0.13	0.11	0.87	1.2
VLF3012AT-4R7MR74	4.7	±20	100	0.19	0.16	0.74	0.98
VLF3012AT-6R8MR59	6.8	±20	100	0.27	0.23	0.59	0.83
VLF3012AT-100MR49	10	±20	100	0.41	0.36	0.49	0.67
VLF3012AT-150MR41	15	±20	100	0.62	0.54	0.41	0.54
VLF3012AT-220MR33	22	±20	100	0.76	0.66	0.33	0.49
VLF3012AT-330MR27	33	±20	100	1.3	1.1	0.27	0.38
VLF3012AT-470MR22	47	±20	100	2.2	1.9	0.22	0.29

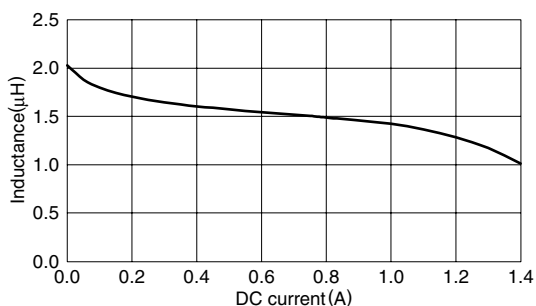
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

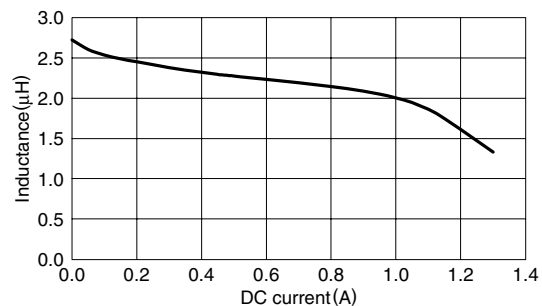
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLF3012AT-1R5N1R2



VLF3012AT-2R2M1R0



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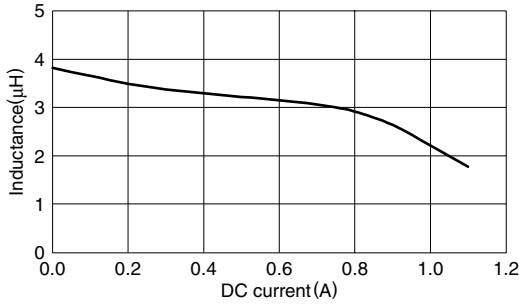
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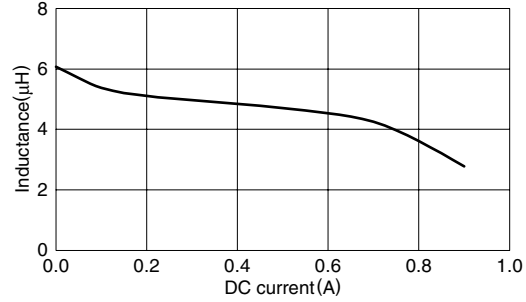
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

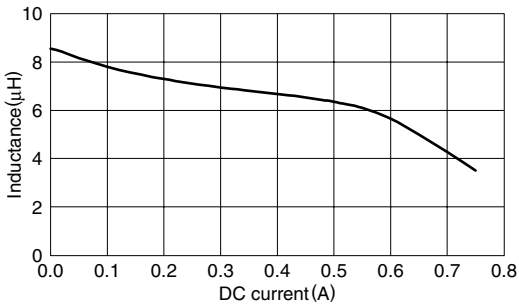
VLF3012AT-3R3MR87



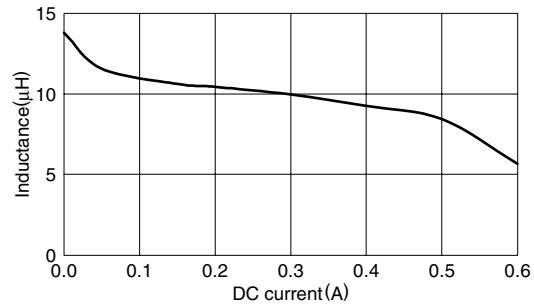
VLF3012AT-4R7MR74



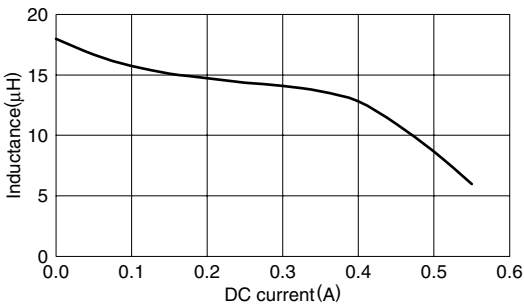
VLF3012AT-6R8MR59



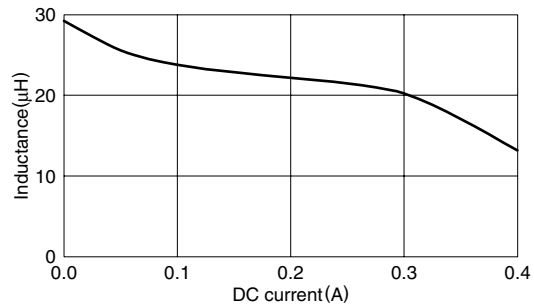
VLF3012AT-100MR49



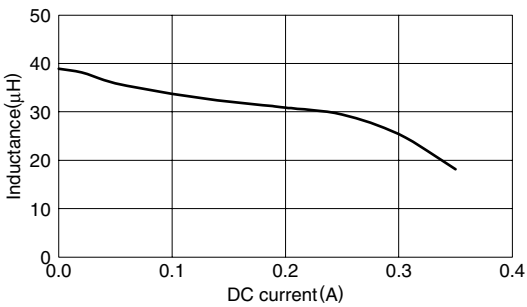
VLF3012AT-150MR41



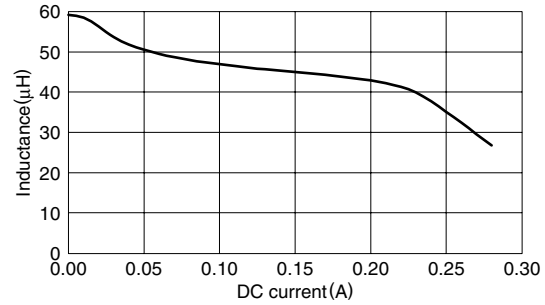
VLF3012AT-220MR33



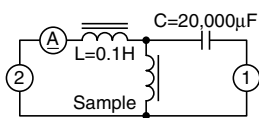
VLF3012AT-330MR27



VLF3012AT-470MR22



TEST CIRCUIT



1: LCR meter 4285A=100kHz
2: DC constant current

• All specifications are subject to change without notice.