Inductors for Power Circuits

Wound/STD • magnetic shielded

VLF series

Type:
VLF3014A (2.6x2.8 mm)
VLF302510MT (3.0x2.5 mm)
VLF302512MT (3.0x2.5 mm)
VLF4012A (3.5x3.7 mm)
VLF4014A (3.5x3.7 mm)
VLF5010A-2 (4.5x4.7 mm)
VLF5012A (4.5x4.7 mm)
VLF5014A (4.5x4.7 mm)

Issue date: March 2012

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF Series VLF3014A

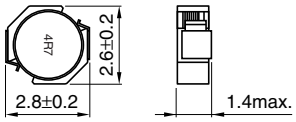
FEATURES

- Mount area: 2.6×2.8mm
  Low profile: 1.4mm 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

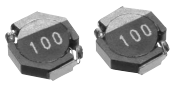
APPLICATIONS

Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

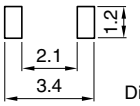
SHAPES AND DIMENSIONS



Dimensions in mm



RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

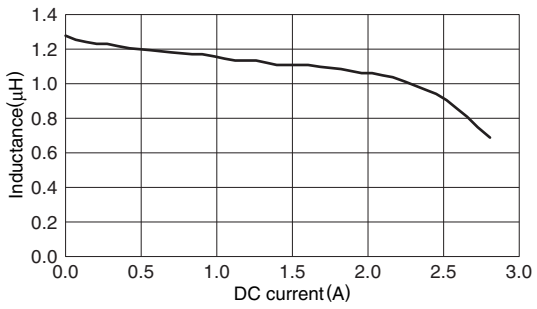
Part No.	Inductance [at 1/2 Idc1]*3 (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)	
				max.	typ.	Based on inductance change Idc1 max.*1	Based on temperature rise Idc2 typ.*2
VLF3014AT-1R0N1R7	1	±30	100	0.054	0.047	2.5	1.7
VLF3014AT-2R2M1R2	2.2	±20	100	0.1	0.091	1.7	1.2
VLF3014AT-3R3M1R0	3.3	±20	100	0.15	0.13	1.3	1
VLF3014AT-4R7MR90	4.7	±20	100	0.2	0.17	1.2	0.9
VLF3014AT-6R8MR72	6.8	±20	100	0.31	0.27	1	0.72
VLF3014AT-100MR59	10	±20	100	0.46	0.4	0.8	0.59
VLF3014AT-220MR37	22	±20	100	1.20	1	0.52	0.37

*1 Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics
*2 Rated current based on increasing product temperature: Current when temperature of the product reaches +40°C
*3 Inductance is at 1/2 Idc1 power distribution. The L vaule at 0A is higher than the guaranteed performance.
• Operating temperature range: –40 to +105°C (Including self-temperature rise)

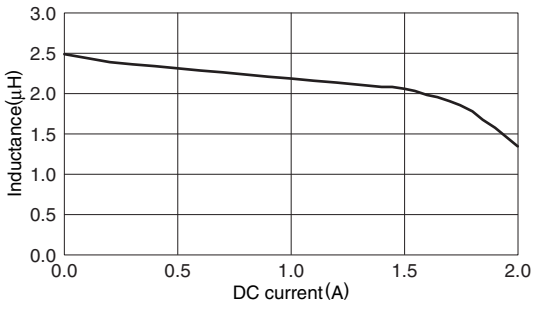
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLF3014AT-1R0N1R7



VLF3014AT-2R2M1R2

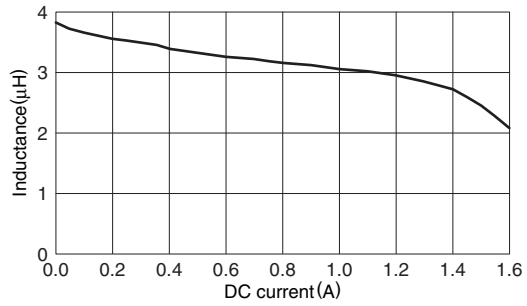


• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

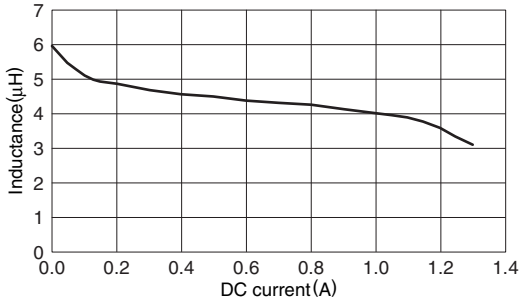
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

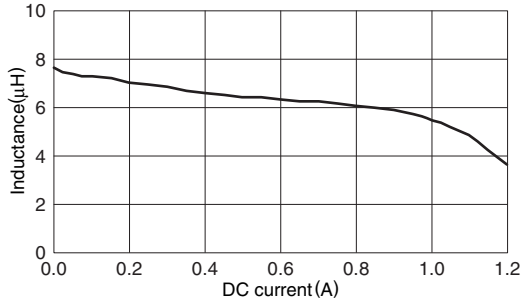
VLF3014AT-3R3M1R0



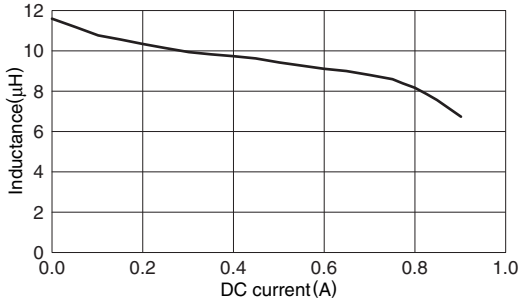
VLF3014AT-4R7MR90



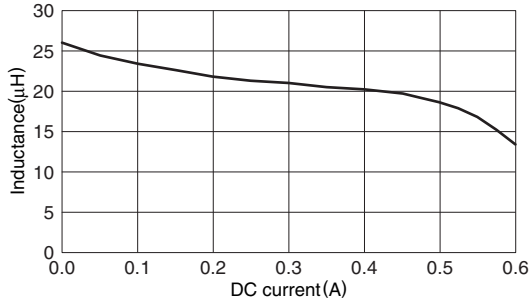
VLF3014AT-6R8MR72



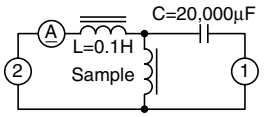
VLF3014AT-100MR59



VLF3014AT-220MR37



TEST CIRCUIT



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

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF-MT Series VLF302510MT

With the VLF302510MT Series, a DC to DC converter with top-class voltage conversion efficiency for similar size products was achieved by optimizing the magnetic material and configuration. These products are optimal for use as choke coils in switching power supplies such as those in mobile devices requiring space-saving design.

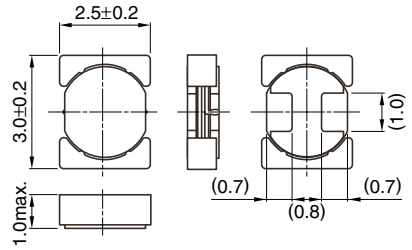
FEATURES

- Miniature size
  Mount area: 3.0×2.5mm
  Low profile: 1.0mm max. height
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- The products contain no lead and also support lead-free soldering.
- The products is halogen-free.
- It is a product conforming to RoHS directive.

APPLICATIONS

Smartphones, cellular phones, DSCs, DVCs, HDDs, LCD displays, compact power supply modules, etc.

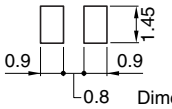
SHAPES AND DIMENSIONS



Weight: 0.026g

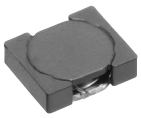
Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



PRODUCT IDENTIFICATION

VLF	302510M	T	-	1R0	N
(1)	(2)	(3)		(4)	(5)

(1) Series name

(2) Dimensions L×W×H mm max.

(3) Packaging style

T	Taping (Embossed carrier tape)

(4) Inductance value

1R0	1.0μH
100	10μH

(5) Inductance tolerance

M	±20%
N	±30%

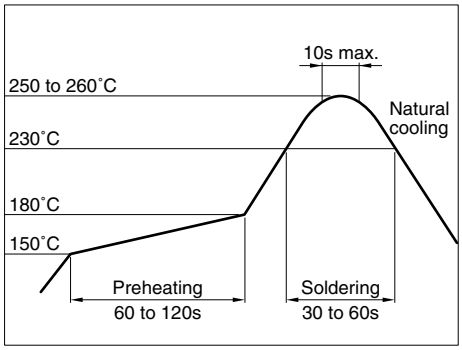
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components.
  The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.

RECOMMENDED SOLDERING CONDITION
REFLOW SOLDERING



Time(s)

- 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.
- Please contact our Sales office when your application is considered the following:
  The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance(%)	Test frequency (MHz)	DC resistance(Ω)		Rated current*(A)		
				max.	typ.	Based on inductance change Idc1		Based on temperature rise Idc2
						max.	typ.	typ.
VLF302510MT-1R0N	1.0	±30	1.0	0.040	0.033	2.00	2.22	2.13
VLF302510MT-1R5N	1.5	±30	1.0	0.066	0.055	1.49	1.65	1.65
VLF302510MT-2R2M	2.2	±20	1.0	0.084	0.070	1.23	1.37	1.50
VLF302510MT-3R3M	3.3	±20	1.0	0.126	0.105	1.09	1.21	1.20
VLF302510MT-4R7M	4.7	±20	1.0	0.168	0.140	0.86	0.95	1.08
VLF302510MT-6R8M	6.8	±20	1.0	0.258	0.215	0.73	0.81	0.84
VLF302510MT-100M	10	±20	1.0	0.372	0.310	0.59	0.65	0.73
VLF302510MT-150M	15	±20	1.0	0.600	0.500	0.47	0.52	0.55
VLF302510MT-220M	22	±20	1.0	0.876	0.730	0.38	0.42	0.45

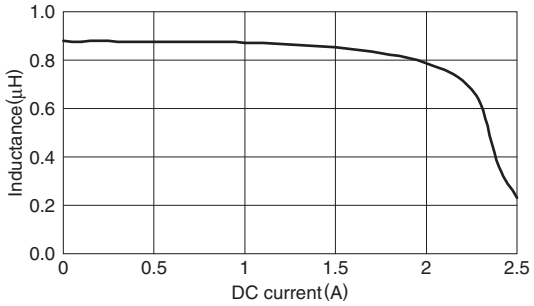
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

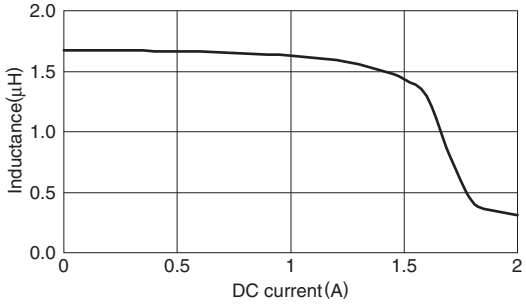
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

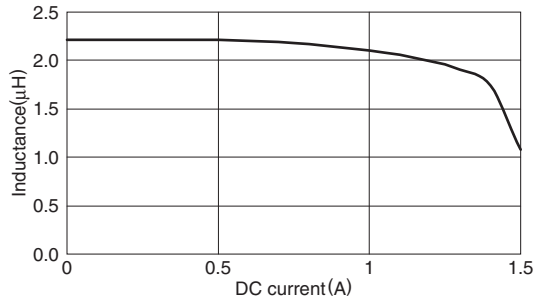
VLF302510MT-1R0N



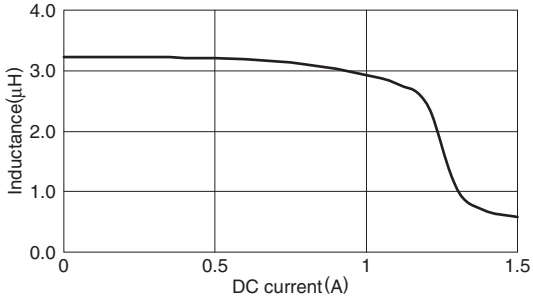
VLF302510MT-1R5N



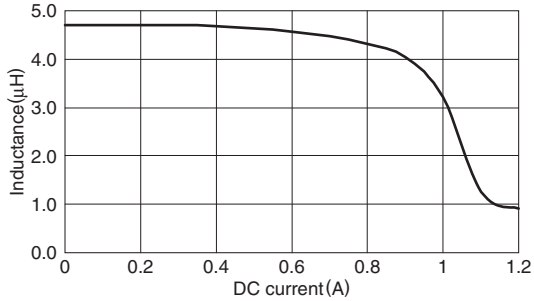
VLF302510MT-2R2M



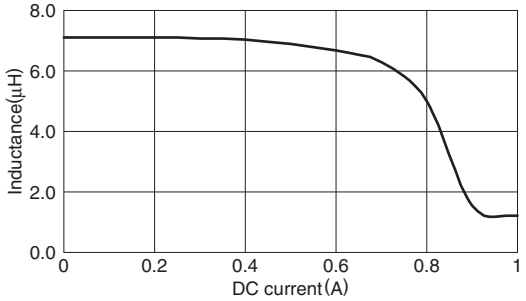
VLF302510MT-3R3M



VLF302510MT-4R7M



VLF302510MT-6R8M

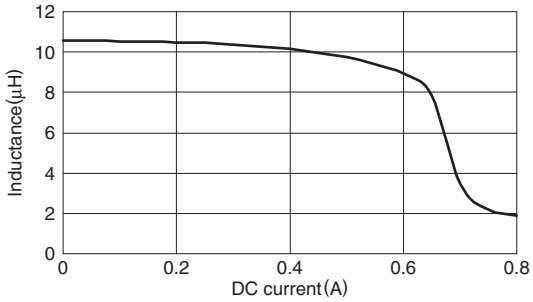


- All specifications are subject to change without notice.

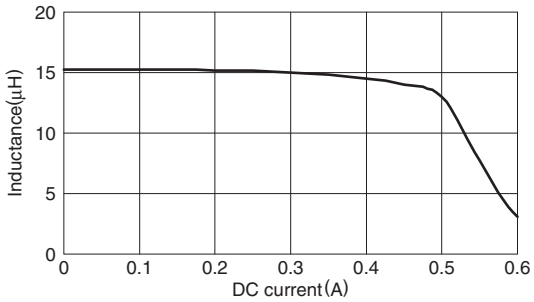
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

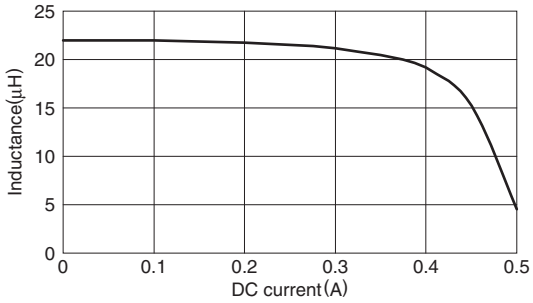
VLF302510MT-100M



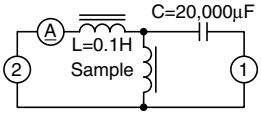
VLF302510MT-150M



VLF302510MT-220M



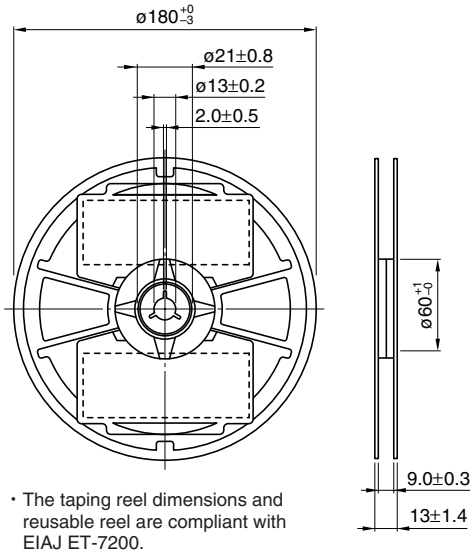
TEST CIRCUIT



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

PACKAGING STYLES

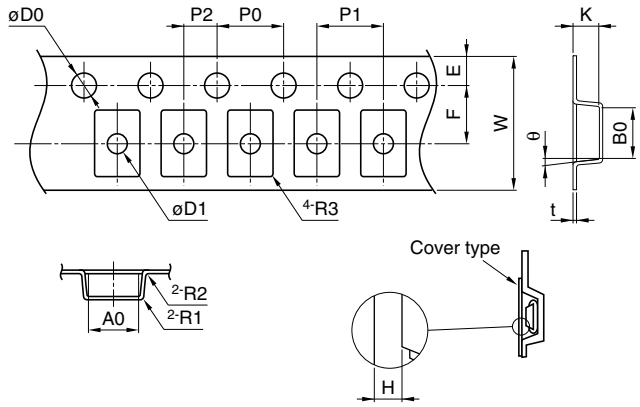
REEL DIMENSIONS



・The taping reel dimensions and reusable reel are compliant with EIAJ ET-7200.

Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

A0	B0	W	F	E
2.8typ.	3.3typ.	8.00± 0.2	3.50± 0.1	1.75± 0.1

P1	P2	H	P0	øD0
4.00± 0.1	2.00±0.05	0.05 to 0.35	4.0±0.1	1.5+0.1/–0

K	øD1	t	R1 to R3	θ
1.15±0.1	1.2±0.2	0.25±0.05	0.3max.	5° typ.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF-MT Series VLF302512MT

With the VLF302512MT Series, a DC to DC converter with top-class voltage conversion efficiency for similar size products was achieved by optimizing the magnetic material and configuration. These products are optimal for use as choke coils in switching power supplies such as those in mobile devices requiring space-saving design.

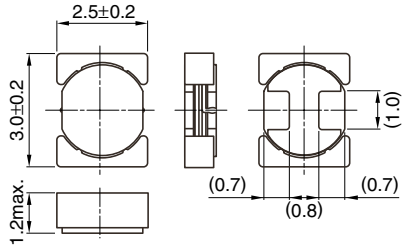
FEATURES

- Miniature size
  Mount area: 3.0×2.5mm
  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.
- The products contain no lead and also support lead-free soldering.
- The products is halogen-free.
- It is a product conforming to RoHS directive.

APPLICATIONS

Smartphones, cellular phones, DSCs, DVCs, HDDs, LCD displays, compact power supply modules, etc.

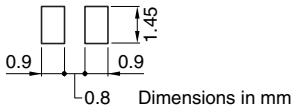
SHAPES AND DIMENSIONS



Weight: 0.033g

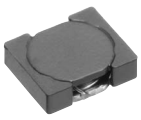
Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



PRODUCT IDENTIFICATION

VLF	302512M	T	-	1R0	N
(1)	(2)	(3)		(4)	(5)

(1) Series name

(2) Dimensions L×W×H mm max.

(3) Packaging style

T	Taping (Embossed carrier tape)

(4) Inductance value

1R0	1.0μH
100	10μH

(5) Inductance tolerance

M	±20%
N	±30%

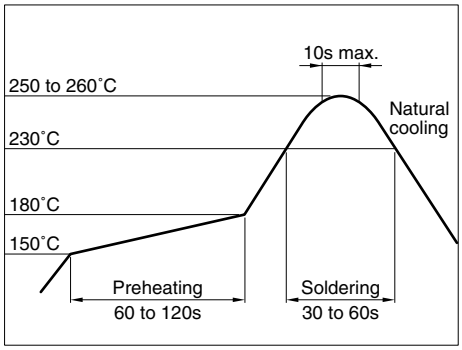
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components.
  The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.

RECOMMENDED SOLDERING CONDITION
REFLOW SOLDERING



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ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance(%)	Test frequency (MHz)	DC resistance(Ω)		Rated current*(A)		
				max.	typ.	Based on inductance change Idc1		Based on temperature rise Idc2
						max.	typ.	typ.
VLF302512MT-1R0N	1.0	±30	1.0	0.037	0.031	1.91	2.12	2.77
VLF302512MT-1R5N	1.5	±30	1.0	0.044	0.037	1.67	1.85	2.54
VLF302512MT-2R2M	2.2	±20	1.0	0.066	0.055	1.26	1.40	1.95
VLF302512MT-3R3M	3.3	±20	1.0	0.108	0.090	1.08	1.20	1.63
VLF302512MT-4R7M	4.7	±20	1.0	0.136	0.113	0.97	1.08	1.42
VLF302512MT-6R8M	6.8	±20	1.0	0.194	0.162	0.78	0.84	1.21
VLF302512MT-100M	10	±20	1.0	0.299	0.249	0.62	0.69	0.95
VLF302512MT-150M	15	±20	1.0	0.448	0.373	0.51	0.57	0.80
VLF302512MT-220M	22	±20	1.0	0.700	0.583	0.43	0.47	0.64

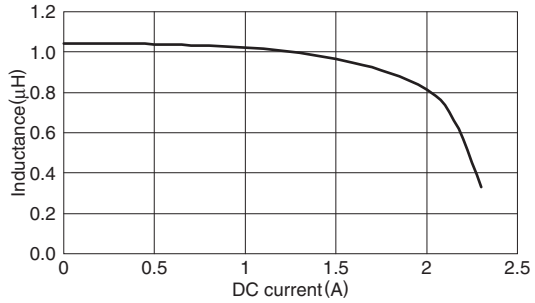
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

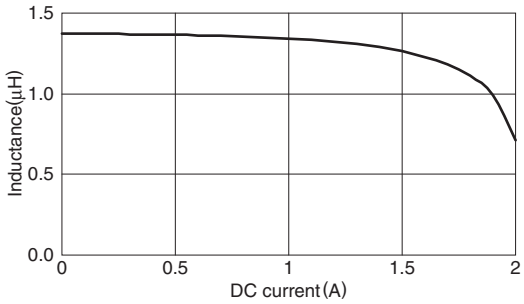
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

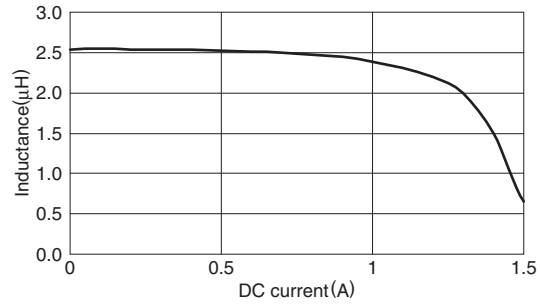
VLF302512MT-1R0N



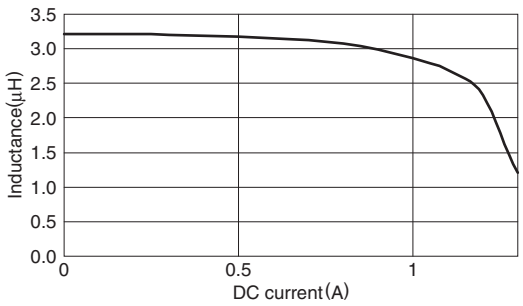
VLF302512MT-1R5N



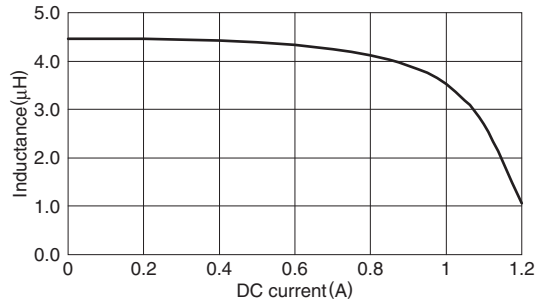
VLF302512MT-2R2M



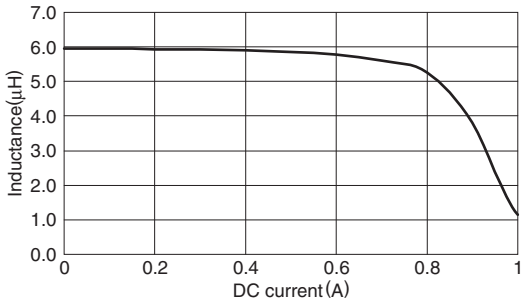
VLF302512MT-3R3M



VLF302512MT-4R7M



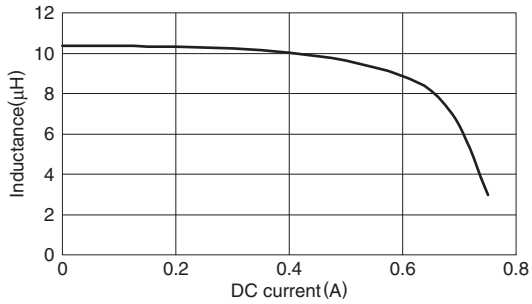
VLF302512MT-6R8M



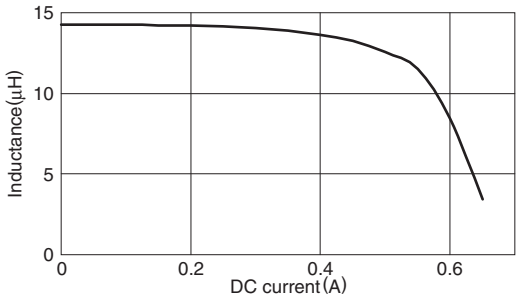
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

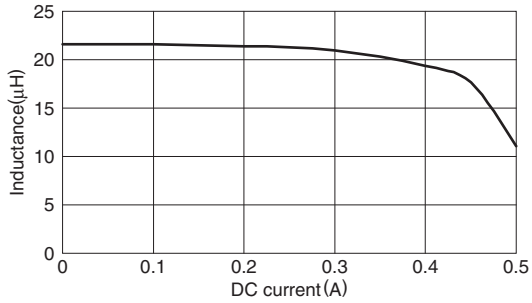
VLF302512MT-100M



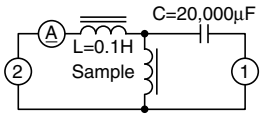
VLF302512MT-150M



VLF302512MT-220M



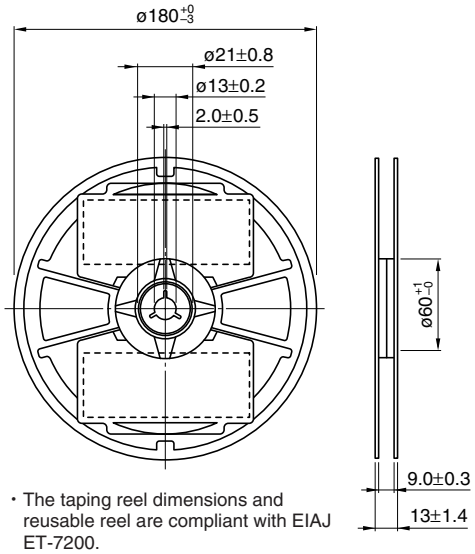
TEST CIRCUIT



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

PACKAGING STYLES

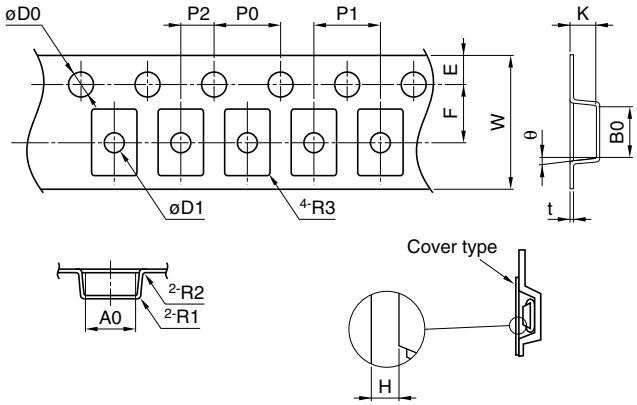
REEL DIMENSIONS



・The taping reel dimensions and reusable reel are compliant with EIAJ ET-7200.

Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

A0	B0	W	F	E
2.8typ.	3.3typ.	8.00± 0.2	3.50± 0.1	1.75± 0.1

P1	P2	H	P0	øD0
4.00± 0.1	2.00±0.05	0.05 to 0.35	4.0±0.1	1.5+0.1/–0

K	øD1	t	R1 to R3	θ
1.35±0.1	1.2±0.2	0.25±0.05	0.3max.	5° typ.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF Series VLF4012A

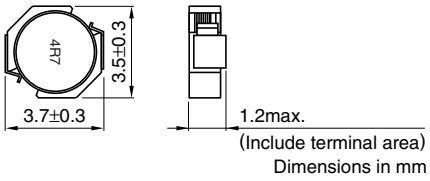
FEATURES

- 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

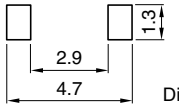
Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance [at 1/2 Idc1]*2 (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current*1(A)	
				max.	typ.	Based on inductance change Idc1 max.	Based on temperature rise Idc2 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

*1 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.

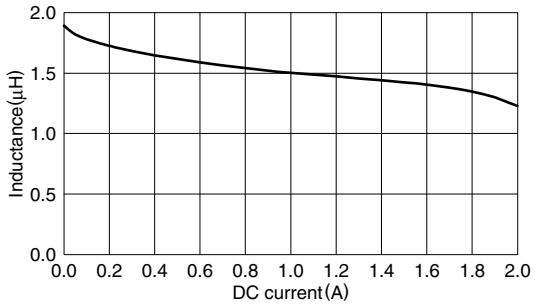
*2 Inductance is at 1/2 Idc1 power distribution. The L vaule at 0A is higher than the guaranteed performance.

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

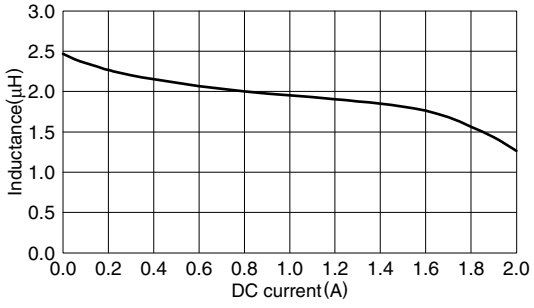
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLF4012AT-1R5M1R6



VLF4012AT-2R2M1R5

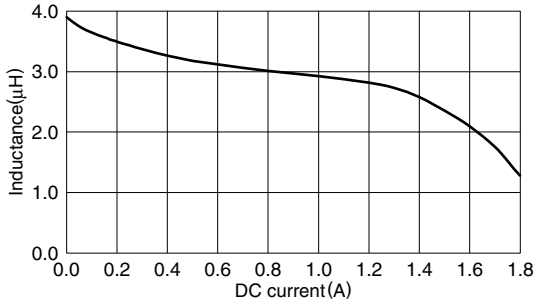


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

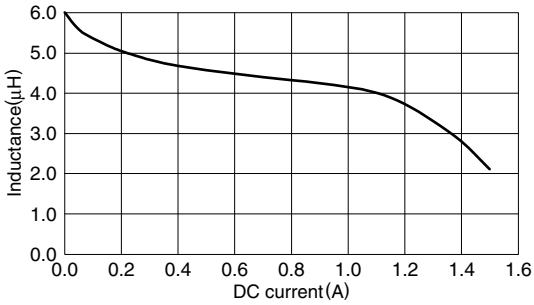
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

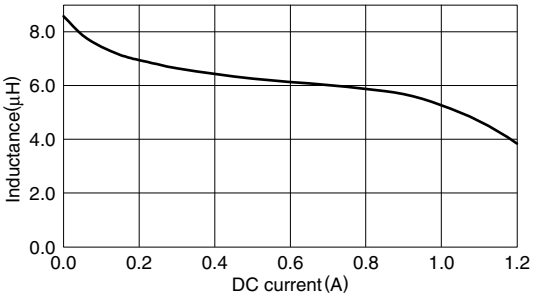
VLF4012AT-3R3M1R3



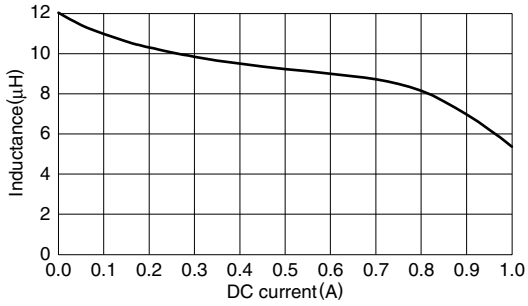
VLF4012AT-4R7M1R1



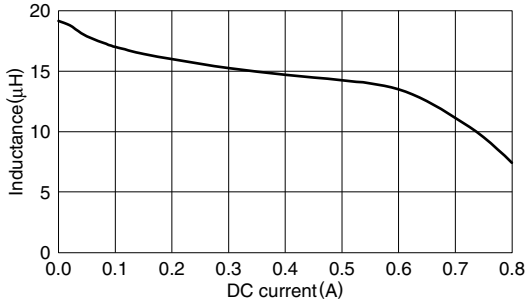
VLF4012AT-6R8MR96



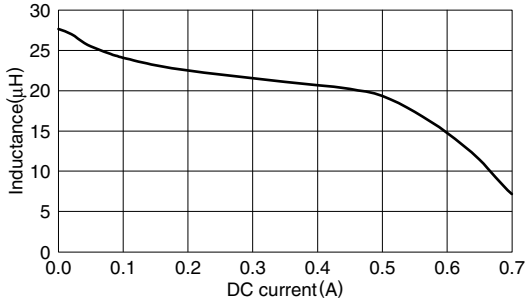
VLF4012AT-100MR79



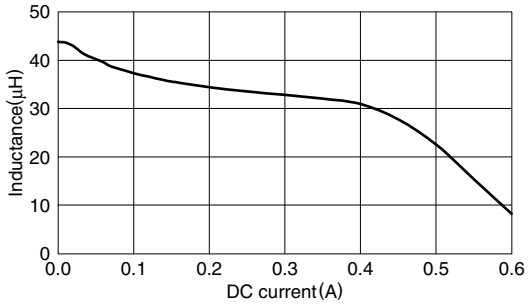
VLF4012AT-150MR63



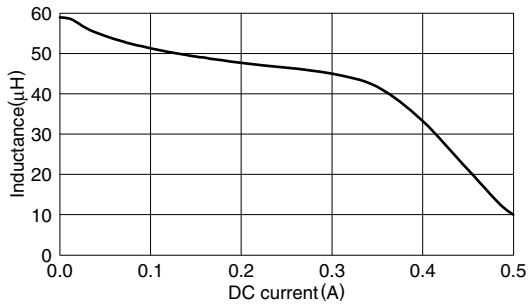
VLF4012AT-220MR51



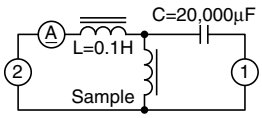
VLF4012AT-330MR39



VLF4012AT-470MR30



TEST CIRCUIT



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

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF Series VLF4014A

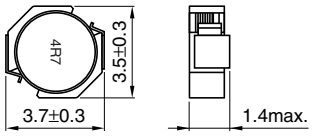
FEATURES

- Mount area: 3.5×3.7mm
  Low profile: 1.4mm 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

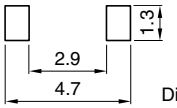
Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

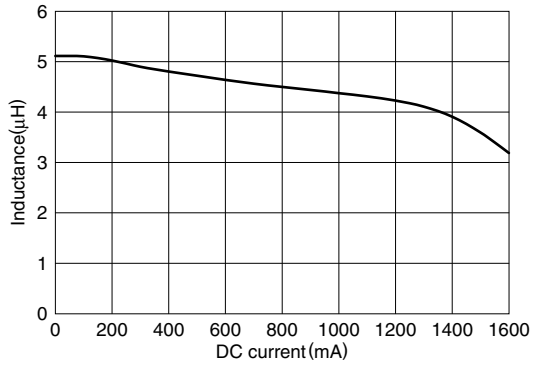
Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLF4014AT-4R7M1R1	4.7	±20	100	0.16	0.14	1.2	1.1
VLF4014AT-100MR90	10	±20	100	0.26	0.23	0.9	0.9

* 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.

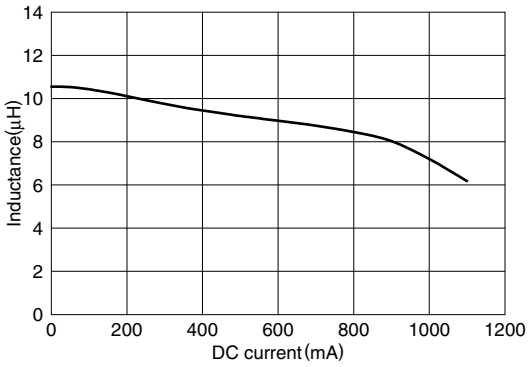
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

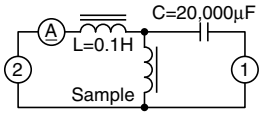
VLF4014AT-4R7M1R1



VLF4014AT-100MR90



TEST CIRCUIT



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

- 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.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF Series VLF5010A-2

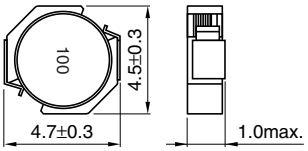
FEATURES

- Miniature size
  Mount area: 4.5×4.7mm
  Low profile: 1.0mm 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

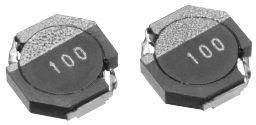
APPLICATIONS

Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

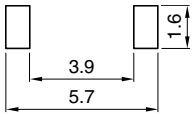
SHAPES AND DIMENSIONS



Dimensions in mm



RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance [at 1/2 Idc1]*2 (μH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current*1(A)	
				max.	typ.	Based on inductance change Idc1 max.	Based on temperature rise Idc2 typ.
VLF5010AT-100MR78-2	10	±20	100	0.36	0.31	0.8	0.78
VLF5010AT-150MR62-2	15	±20	100	0.55	0.48	0.66	0.62
VLF5010AT-220MR50-2	22	±20	100	0.85	0.74	0.54	0.5
VLF5010AT-330MR41-2	33	±20	100	1.3	1.1	0.43	0.41

*1 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.

*2 Inductance is at 1/2 Idc1 power distribution. The L vaule at 0A is higher than the guaranteed performance.

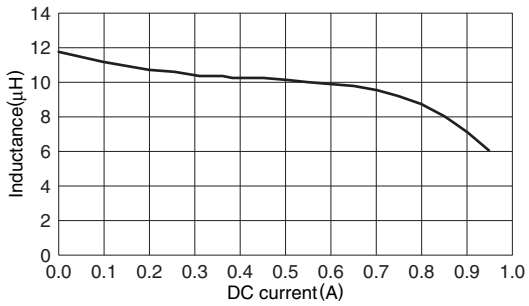
- Operating temperature range: –40 to +105°C (Including self-temperature rise)

- 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.

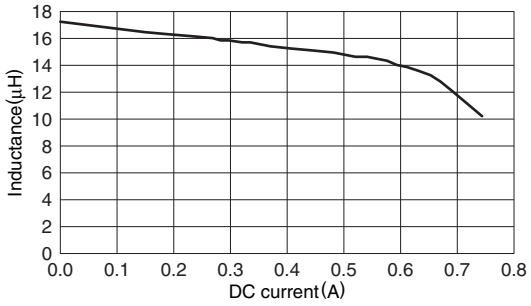
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

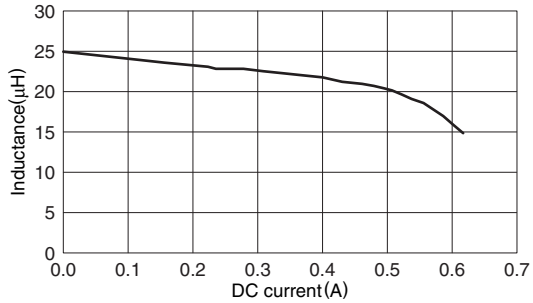
VLF5010AT-100MR78-2



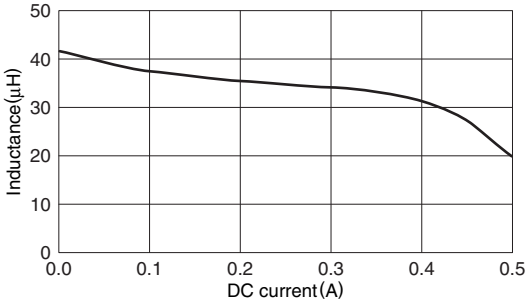
VLF5010AT-150MR62-2



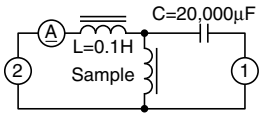
VLF5010AT-220MR50-2



VLF5010AT-330MR41-2



TEST CIRCUIT



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

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF Series VLF5012A

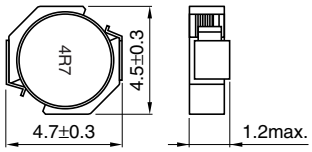
FEATURES

- Miniature size
  Mount area: 4.5×4.7mm
  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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

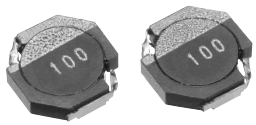
APPLICATIONS

Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

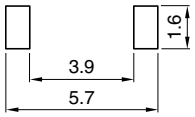
SHAPES AND DIMENSIONS



Dimensions in mm



RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance [at 1/2 Idc1]*2 (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current*1(A)	
				max.	typ.	Based on inductance change Idc1 max.	Based on temperature rise Idc2 typ.
VLF5012AT-2R2M1R5	2.2	±20	100	0.11	0.09	2.3	1.5
VLF5012AT-3R3M1R3	3.3	±20	100	0.14	0.12	1.7	1.3
VLF5012AT-4R7M1R2	4.7	±20	100	0.16	0.14	1.5	1.2
VLF5012AT-6R8M1R0	6.8	±20	100	0.2	0.17	1.2	1
VLF5012AT-100MR80	10	±20	100	0.35	0.3	1	0.8

*1 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.

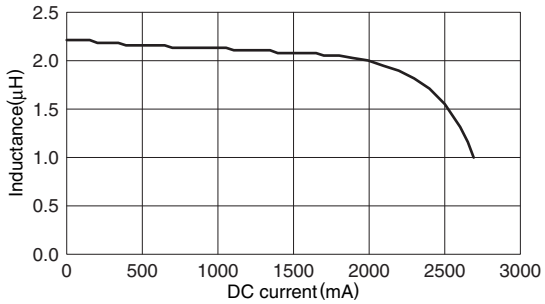
*2 Inductance is at 1/2 Idc1 power distribution. The L vaule at 0A is higher than the guaranteed performance.

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

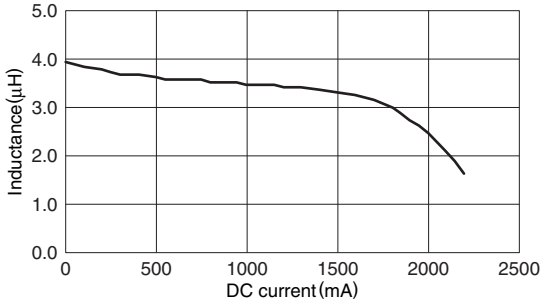
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLF5012AT-2R2M1R5



VLF5012AT-3R3M1R3

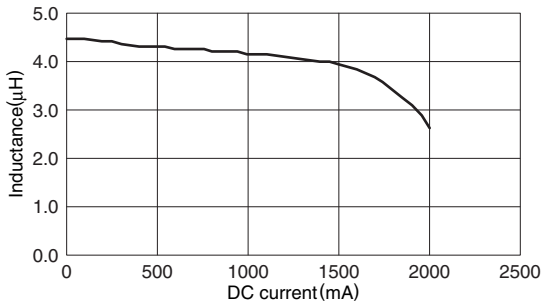


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

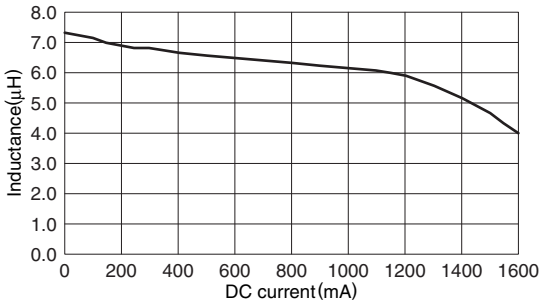
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

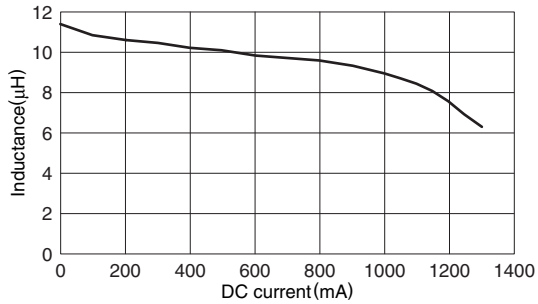
VLF5012AT-4R7M1R2



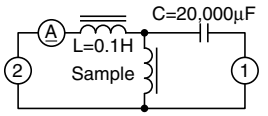
VLF5012AT-6R8M1R0



VLF5012AT-100MR80



TEST CIRCUIT



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

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

VLF Series VLF5014A

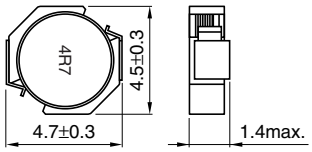
FEATURES

- Miniature size
  Mount area: 4.5×4.7mm
  Low profile: 1.4mm 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

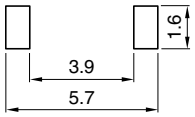
Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance [at 1/2 Idc1]*2 (μH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current*1(A)	
				max.	typ.	Based on inductance change Idc1 max.	Based on temperature rise Idc2 typ.
VLF5014AT-1R5M1R7	1.5	±20	100	0.059	0.051	2.9	1.7
VLF5014AT-2R7M1R5	2.7	±20	100	0.078	0.068	2.2	1.5
VLF5014AT-4R7M1R1	4.7	±20	100	0.13	0.12	1.7	1.1
VLF5014AT-6R8MR99	6.8	±20	100	0.19	0.16	1.4	0.99
VLF5014AT-100MR92	10	±20	100	0.22	0.19	1.1	0.92
VLF5014AT-150MR76	15	±20	100	0.32	0.28	0.97	0.76
VLF5014AT-220MR62	22	±20	100	0.46	0.40	0.81	0.62
VLF5014AT-330MR50	33	±20	100	0.72	0.63	0.64	0.50
VLF5014AT-470MR41	47	±20	100	1.1	0.95	0.54	0.41
VLF5014AT-101MR26	100	±20	100	2.7	2.4	0.37	0.26

*1 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.

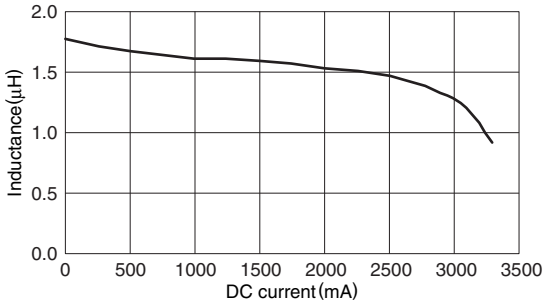
*2 Inductance is at 1/2 Idc1 power distribution. The L vaule at 0A is higher than the guaranteed performance.

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

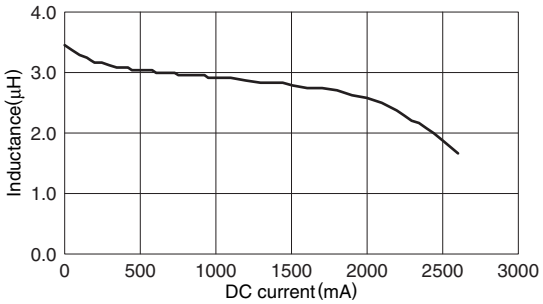
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

VLF5014AT-1R5M1R7



VLF5014AT-2R7M1R5

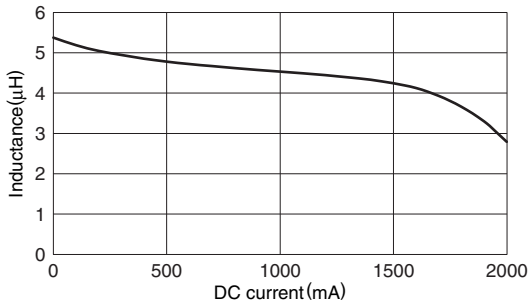


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

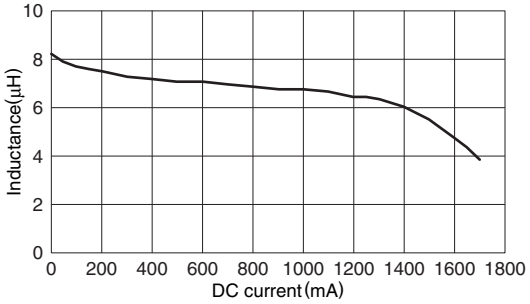
TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

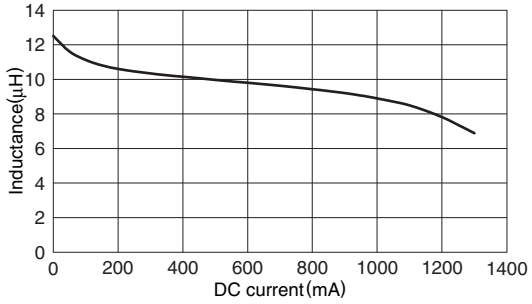
VLF5014AT-4R7M1R1



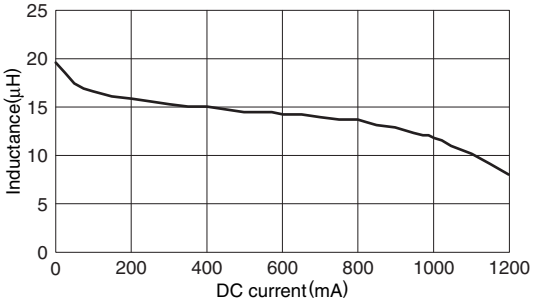
VLF5014AT-6R8MR99



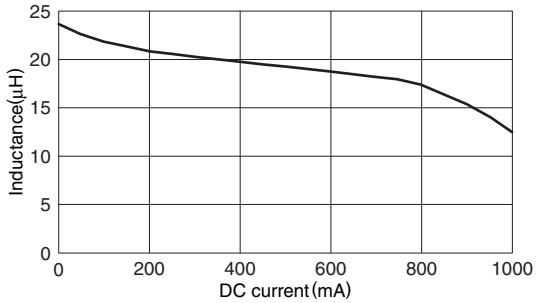
VLF5014AT-100MR92



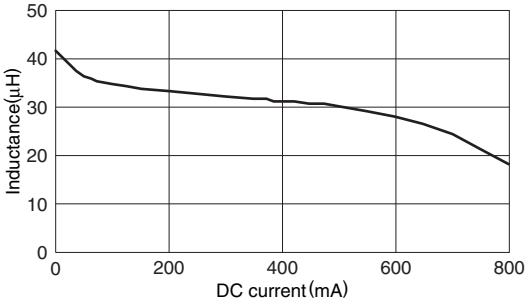
VLF5014AT-150MR76



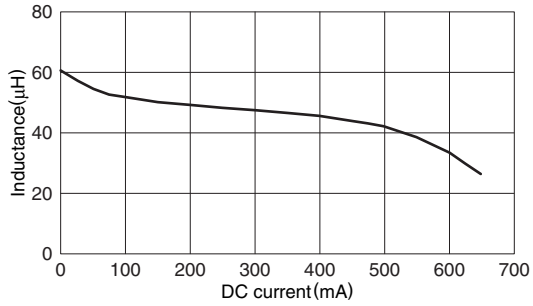
VLF5014AT-220MR62



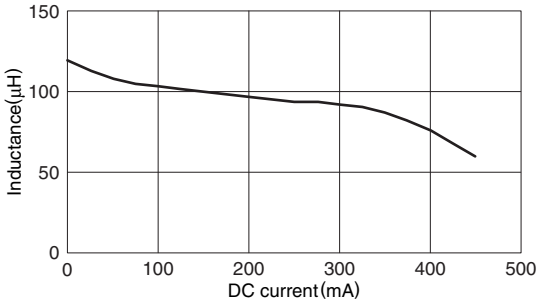
VLF5014AT-330MR50



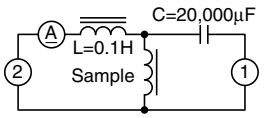
VLF5014AT-470MR41



VLF5014AT-101MR26



TEST CIRCUIT



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