

Inductors for Power Circuits

Wound/STD • magnetic shielded

VLCF series

Type: VLCF4018-2 (4.0x4.0 mm)
 VLCF4020 (4.0x4.0 mm)
 VLCF4024-2 (4.0x4.0 mm)
 VLCF4028-2 (4.0x4.0 mm)
 VLCF5020 (5.0x5.0 mm)
 VLCF5020-1 (5.0x5.0 mm)
 VLCF5020-3 (5.0x5.0 mm)
 VLCF5024-2 (5.0x5.0 mm)
 VLCF5028-2 (5.0x5.0 mm)

Issue date: October 2012

- All specifications are subject to change without notice.
- 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

Conformity to RoHS Directive

VLCF Series VLCF4018-2

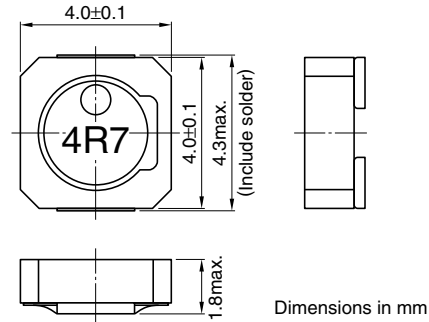
FEATURES

- Mount area: 4×4mm
Low profile: 1.8mm 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

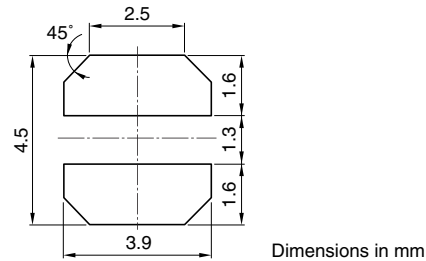
APPLICATIONS

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

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.
VLCF4018T-1R6N1R7-2	1.6	±30	100	0.051	0.044	1.72	2.42
VLCF4018T-2R2N1R4-2	2.2	±30	100	0.06	0.052	1.44	2.23
VLCF4018T-3R3N1R2-2	3.3	±30	100	0.079	0.069	1.26	1.93
VLCF4018T-4R7N1R0-2	4.7	±30	100	0.101	0.088	1.07	1.72
VLCF4018T-6R8NR94-2	6.8	±30	100	0.124	0.108	0.94	1.55
VLCF4018T-100MR74-2	10	±20	100	0.188	0.163	0.74	1.26
VLCF4018T-150MR59-2	15	±20	100	0.268	0.233	0.59	1.1
VLCF4018T-220MR49-2	22	±20	100	0.369	0.321	0.49	0.9
VLCF4018T-330MR42-2	33	±20	100	0.54	0.469	0.42	0.74
VLCF4018T-470MR34-2	47	±20	100	0.76	0.661	0.34	0.62

* 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)

• 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.

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Inductors for Power Circuits

Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLCF Series VLCF4020

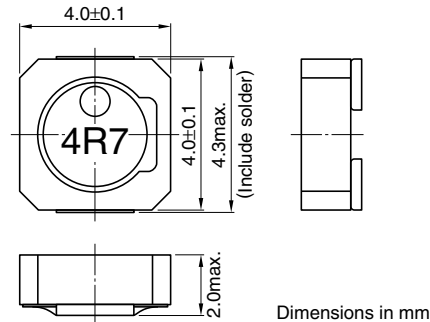
FEATURES

- Miniature size
Mount area: 4×4mm
Height: 2.0mm 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

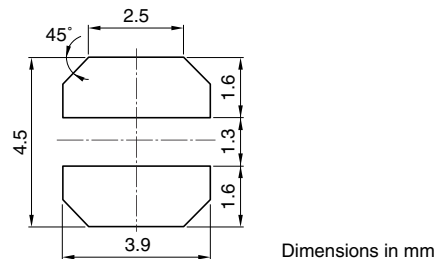
DC to DC converters for DVC, DSC, PDA, MD, LCD displays, HDDs, etc.

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.
VLCF4020T-1R8N1R9	1.8	±30	100	0.051	0.046	1.97	2.37
VLCF4020T-2R2N1R7	2.2	±30	100	0.059	0.054	1.72	2.19
VLCF4020T-3R3N1R5	3.3	±30	100	0.078	0.071	1.52	1.94
VLCF4020T-4R7N1R2	4.7	±30	100	0.098	0.089	1.24	1.71
VLCF4020T-6R8N1R0	6.8	±30	100	0.131	0.119	1.05	1.47
VLCF4020T-100MR85	10	±20	100	0.185	0.168	0.85	1.22
VLCF4020T-150MR68	15	±20	100	0.303	0.275	0.68	1.0
VLCF4020T-220MR56	22	±20	100	0.431	0.391	0.56	0.8
VLCF4020T-270MR48	27	±20	100	0.496	0.451	0.48	0.8
VLCF4020T-330MR47	33	±20	100	0.628	0.571	0.47	0.69
VLCF4020T-470MR39	47	±20	100	0.934	0.849	0.39	0.56
VLCF4020T-101MR26	100	±20	100	1.4	1.308	0.26	0.45

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Inductors for Power Circuits

Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLCF Series VLCF4024-2

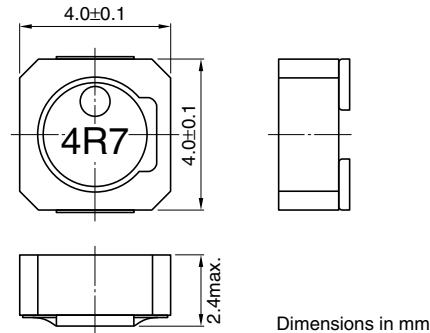
FEATURES

- Miniature size
Mount area: 4×4mm
Height: 2.4mm 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.

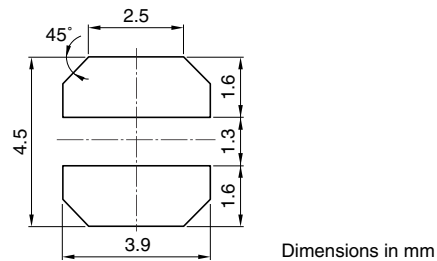
APPLICATIONS

DC to DC converters for DVC, DSC, PDA, MD, LCD displays, HDDs, cellular phones, 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.
VLCF4024T-1R2N2R4-2	1.2	±30%	100	0.032	0.027	2.46	3.09
VLCF4024T-1R6N2R1-2	1.6	±30%	100	0.039	0.035	2.10	2.61
VLCF4024T-2R2N1R7-2	2.2	±30%	100	0.043	0.039	1.76	2.43
VLCF4024T-3R3N1R6-2	3.3	±30%	100	0.068	0.061	1.60	1.96
VLCF4024T-4R7N1R4-2	4.7	±30%	100	0.087	0.075	1.43	1.76
VLCF4024T-6R8N1R1-2	6.8	±30%	100	0.116	0.101	1.15	1.54
VLCF4024T-100MR90-2	10	±20%	100	0.136	0.119	0.90	1.37
VLCF4024T-150MR80-2	15	±20%	100	0.198	0.172	0.80	1.05
VLCF4024T-220MR65-2	22	±20%	100	0.332	0.28	0.65	0.90
VLCF4024T-330MR55-2	33	±20%	100	0.438	0.38	0.55	0.74
VLCF4024T-470MR44-2	47	±20%	100	0.644	0.56	0.44	0.64
VLCF4024T-101MR30-2	100	±20%	100	1.21	1.05	0.30	0.48

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Conformity to RoHS Directive

VLCF Series VLCF4028-2

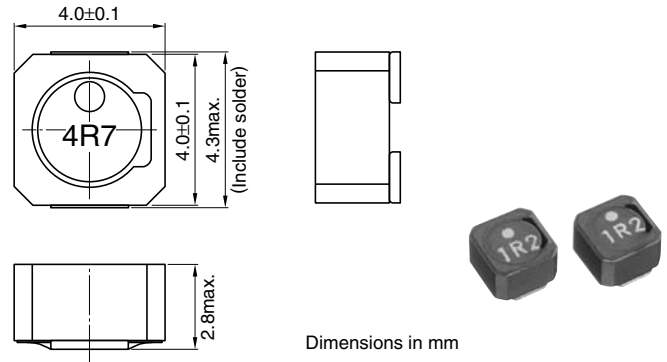
FEATURES

- Mount area: 4×4mm
Low profile: 2.8mm 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 contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

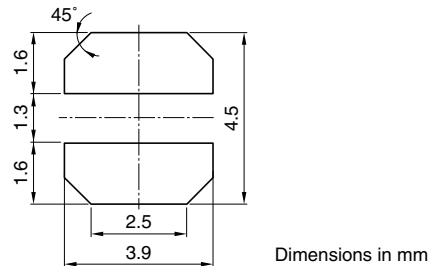
APPLICATIONS

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

SHAPES AND DIMENSIONS



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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.
VLCF4028T-1R2N2R7-2	1.2	±30	100	0.032	0.027	2.71	3.11
VLCF4028T-1R6N2R3-2	1.6	±30	100	0.038	0.032	2.31	2.85
VLCF4028T-2R2N1R9-2	2.2	±30	100	0.043	0.037	1.94	2.63
VLCF4028T-2R7N1R8-2	2.7	±30	100	0.049	0.043	1.89	2.46
VLCF4028T-4R7N1R5-2	4.7	±30	100	0.062	0.054	1.57	2.18
VLCF4028T-6R8N1R3-2	6.8	±30	100	0.1	0.09	1.36	1.69
VLCF4028T-100M1R0-2	10	±20	100	0.14	0.12	1.06	1.45
VLCF4028T-150MR88-2	15	±20	100	0.17	0.15	0.88	1.05
VLCF4028T-220MR72-2	22	±20	100	0.24	0.21	0.72	0.9
VLCF4028T-330MR61-2	33	±20	100	0.35	0.3	0.61	0.74
VLCF4028T-470MR48-2	47	±20	100	0.49	0.42	0.48	0.78
VLCF4028T-101MR33-2	100	±20	100	1	0.87	0.33	0.55
VLCF4028T-471MR14-2	470	±20	100	4.58	3.98	0.14	0.25

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VLCF Series VLCF5020

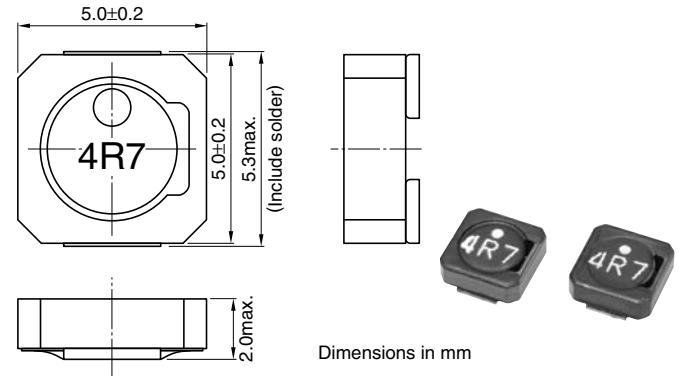
FEATURES

- Miniature size
Mount area: 5×5mm
Height: 2.0mm 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.

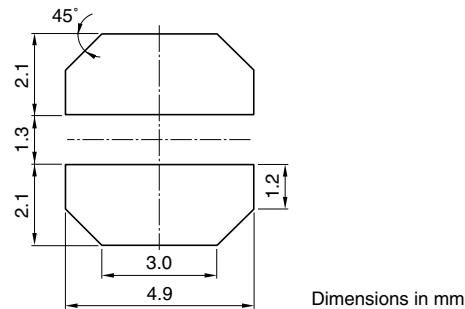
APPLICATIONS

DC to DC converters for DVC, DSC, PDA, MD, LCD displays, 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.
VLCF5020T-1R8N2R0	1.8	±30%	100	0.059	0.049	2.07	2.75
VLCF5020T-2R7N1R7	2.7	±30%	100	0.071	0.058	1.76	2.51
VLCF5020T-3R3N1R6	3.3	±30%	100	0.083	0.069	1.6	2.31
VLCF5020T-4R7N1R4	4.7	±30%	100	0.096	0.079	1.4	2.15
VLCF5020T-6R8N1R1	6.8	±30%	100	0.122	0.102	1.11	1.9
VLCF5020T-100MR87	10	±20%	100	0.182	0.151	0.87	1.56
VLCF5020T-150MR71	15	±20%	100	0.256	0.214	0.71	1.3
VLCF5020T-220MR58	22	±20%	100	0.373	0.311	0.58	1.1
VLCF5020T-330MR48	33	±20%	100	0.522	0.435	0.48	0.92
VLCF5020T-470MR40	47	±20%	100	0.748	0.623	0.40	0.77
VLCF5020T-101MR27	100	±20%	100	1.581	1.375	0.27	0.52

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Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLCF Series VLCF5020-1

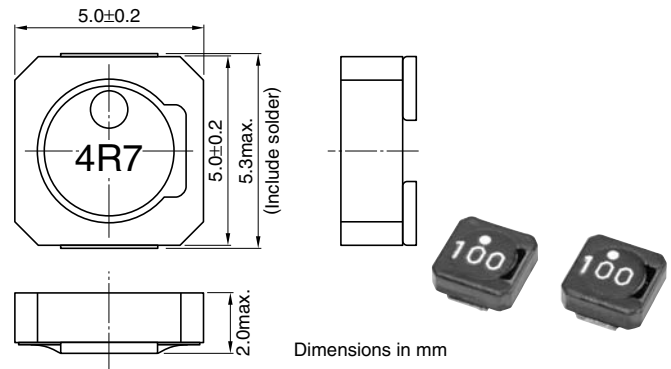
FEATURES

- Miniature size
Mount area: 5×5mm
Height: 2.0mm 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.

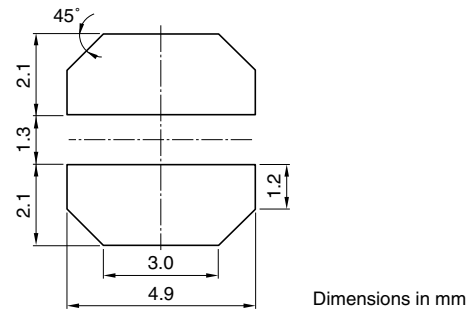
APPLICATIONS

DC to DC converters for DVC, DSC, PDA, MD, LCD displays, 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.
VLCF5020T-2R2N2R6-1	2.2	±30%	100	0.071	0.058	2.62	2.76
VLCF5020T-2R7N2R2-1	2.7	±30%	100	0.083	0.069	2.28	2.55
VLCF5020T-3R3N2R0-1	3.3	±30%	100	0.096	0.079	2.02	2.37
VLCF5020T-4R7N1R7-1	4.7	±30%	100	0.122	0.102	1.7	2.09
VLCF5020T-6R8N1R3-1	6.8	±30%	100	0.165	0.138	1.39	1.8
VLCF5020T-100M1R1-1	10	±20%	100	0.237	0.198	1.13	1.5
VLCF5020T-150MR90-1	15	±20%	100	0.35	0.292	0.90	1.2
VLCF5020T-220MR75-1	22	±20%	100	0.496	0.413	0.75	1.0
VLCF5020T-330MR62-1	33	±20%	100	0.717	0.597	0.62	0.86
VLCF5020T-470MR51-1	47	±20%	100	1.05	0.875	0.51	0.71

* 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)

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Inductors for Power Circuits

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VLCF Series VLCF5020-3

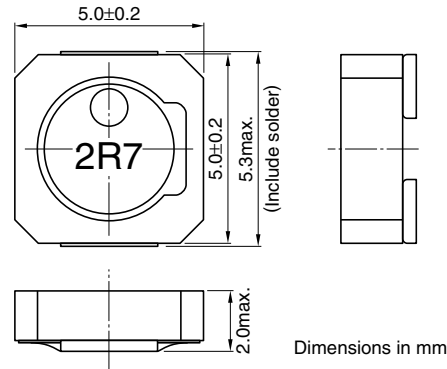
FEATURES

- Miniature size
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- Generic use for portable DC to DC converter line
- High magnetic shield construction should actualize high resolution for EMC protection.
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APPLICATIONS

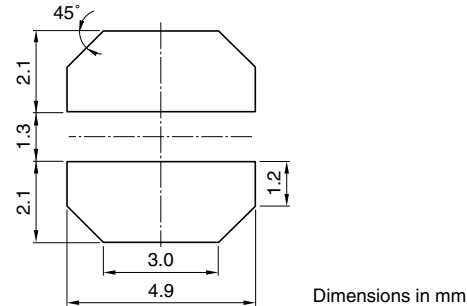
DC to DC converters for DVC, DSC, PDA, MD, LCD displays, HDDs, cellular phones, etc.

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.
VLCF5020T-2R2N2R6-3	2.2	±30%	100	0.043	0.038	2.62	3.25
VLCF5020T-2R7N2R2-3	2.7	±30%	100	0.054	0.046	2.28	2.98
VLCF5020T-3R3N2R0-3	3.3	±30%	100	0.065	0.055	2.02	2.76

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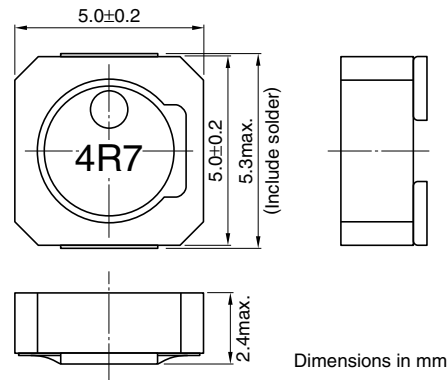
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APPLICATIONS

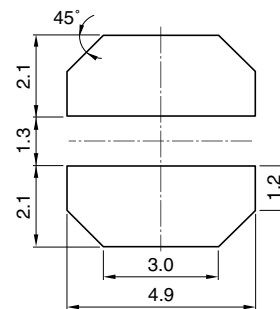
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SHAPES AND DIMENSIONS



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.
VLCF5024T-1R8N1R8-2	1.8	±30%	100	0.026	0.022	1.86	4.05
VLCF5024T-2R7N1R5-2	2.7	±30%	100	0.031	0.027	1.53	3.67
VLCF5024T-3R3N1R4-2	3.3	±30%	100	0.037	0.032	1.46	3.37
VLCF5024T-4R7N1R3-2	4.7	±30%	100	0.044	0.038	1.33	3.11
VLCF5024T-6R8N1R1-2	6.8	±30%	100	0.061	0.053	1.11	2.62
VLCF5024T-100MR88-2	10	±20%	100	0.092	0.080	0.88	2.14
VLCF5024T-150MR71-2	15	±20%	100	0.152	0.133	0.71	1.66
VLCF5024T-220MR59-2	22	±20%	100	0.188	0.164	0.59	1.50
VLCF5024T-330MR50-2	33	±20%	100	0.275	0.239	0.50	1.24
VLCF5024T-470MR40-2	47	±20%	100	0.383	0.333	0.40	1.05
VLCF5024T-101MR28-2	100	±20%	100	0.838	0.762	0.28	0.72

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Conformity to RoHS Directive

VLCF Series VLCF5028-2

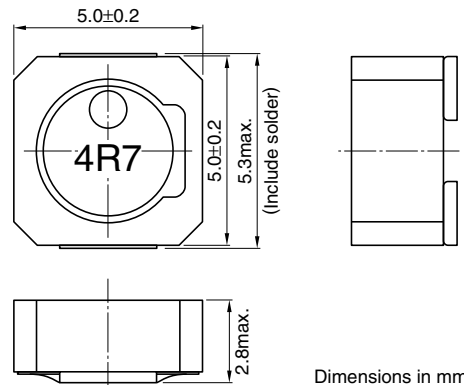
FEATURES

- Miniature size
Mount area: 5×5mm
Height: 2.8mm 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

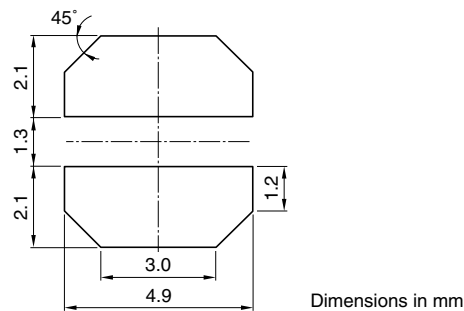
DC to DC converters for DVCs, DSCs, PDAs, MDs, LCD displays, HDDs, etc.

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.
VLCF5028T-1R3N2R5-2	1.3	±30	100	0.022	0.019	2.56	4.32
VLCF5028T-1R8N2R2-2	1.8	±30	100	0.028	0.023	2.22	3.88
VLCF5028T-2R7N1R8-2	2.7	±30	100	0.033	0.028	1.82	3.53
VLCF5028T-3R3N1R7-2	3.3	±30	100	0.037	0.032	1.74	3.26
VLCF5028T-4R7N1R5-2	4.7	±30	100	0.043	0.038	1.58	3.03
VLCF5028T-6R8N1R3-2	6.8	±30	100	0.056	0.048	1.32	2.67
VLCF5028T-100M1R0-2	10	±20	100	0.083	0.072	1.05	2.19
VLCF5028T-150MR85-2	15	±20	100	0.12	0.1	0.85	1.85
VLCF5028T-220MR71-2	22	±20	100	0.14	0.13	0.71	1.66
VLCF5028T-330MR62-2	33	±20	100	0.24	0.21	0.62	1.3
VLCF5028T-470MR49-2	47	±20	100	0.33	0.29	0.49	1.1
VLCF5028T-560MR43-2	56	±20	100	0.41	0.36	0.43	0.98
VLCF5028T-680MR40-2	68	±20	100	0.46	0.4	0.4	0.93
VLCF5028T-101MR33-2	100	±20	100	0.67	0.58	0.33	0.77
VLCF5028T-221MR22-2	220	±20	100	1.38	1.2	0.22	0.54
VLCF5028T-471MR14-2	470	±20	100	3.12	2.71	0.14	0.35

* 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)

• 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.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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