

Inductors for Power Supply Circuit

Wound/STD • magnetic shielded

VLM series

Type: VLM10555-2
 VLM10555-3
 VLM13580-D1

Issue date: September 2011

- 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.
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Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLM Series VLM10555-2

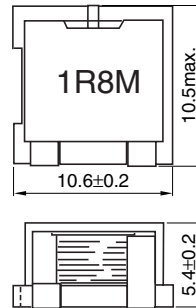
FEATURES

- Low loss and large current capability design.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Magnetic coupling type core with low magnetic flux leakage and a three-terminal structure.
- Available for automatic mounting in tape and reel package.

APPLICATIONS

Note book type and mobile computers, amusement equipment, DVD players, VRMs, plasma displays, etc.

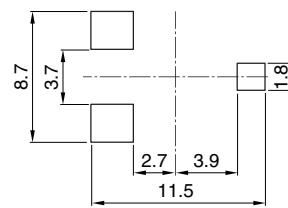
SHAPES AND DIMENSIONS



Dimensions in mm

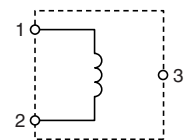


RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μ H)	Inductance tolerance (%)	Test frequency (kHz)	DC resistance (m Ω)		Rated current(A)*		Based on temperature rise typ.
				[$\pm 15\%$]	typ.	Based on inductance change max.(typ.)	Based on max.(typ.)	
VLM10555T-1R8M8R8-2	1.8	± 20	100	5.6	5.6	18(20)	14(16)	8.8
VLM10555T-2R5M8R0-2	2.5	± 20	100	6.7	6.7	15(17)	12(14)	8
VLM10555T-3R3M7R2-2	3.3	± 20	100	8.3	8.3	12(14)	10(12)	7.2
VLM10555T-4R3M7R2-2	4.3	± 20	100	8.3	8.3	9(11)	7(9)	7.2

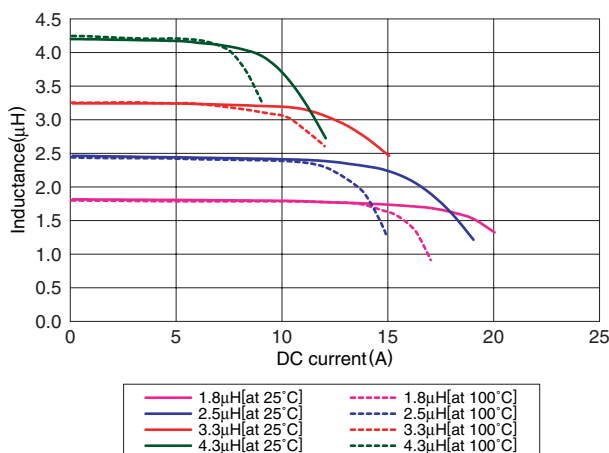
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

• Operating temperature range: -40 to +125°C (Including self-temperature rise)

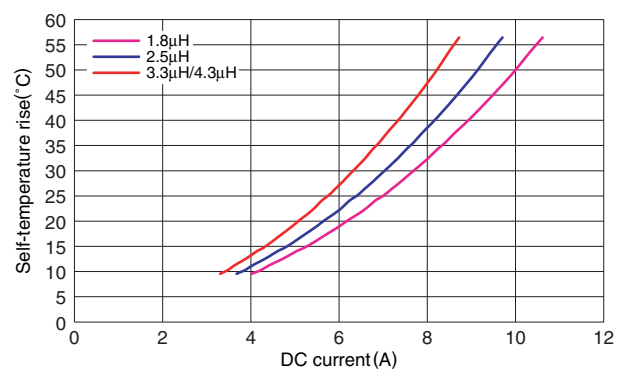
• Test equipment WK 3260B PRECISION MAGNETICS ANALYZER, WK 3265B 25A DC BIAS UNIT, or equivalent

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



TEMPERATURE RISE CHARACTERISTICS



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Inductors for Power Supply Circuit

Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLM Series VLM10555-3

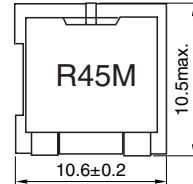
FEATURES

- Low loss and large current capability design.
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- Available for automatic mounting in tape and reel package.

APPLICATIONS

Note book type and mobile computers, amusement equipment, DVD players, VRMs, plasma displays, etc.

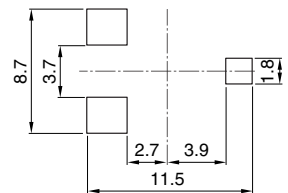
SHAPES AND DIMENSIONS



Dimensions in mm

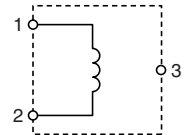


RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (nH)	Inductance tolerance (%)	Test frequency (kHz)	DC resistance (mΩ)		Rated current(A)*		Based on temperature rise typ.
				max.	typ.	Based on inductance change max.		
VLM10555T-R33M180-3	330	±20	100	1.2	0.95	34	30	18
VLM10555T-R45M110-3	450	±20	100	2.6	2.2	40	34	11
VLM10555T-R56M120-3	560	±20	100	2.5	2.1	34	26	12
VLM10555T-R70M120-3	700	±20	100	2.5	2.1	26	21	12
VLM10555T-1R2M100-3	1200	±20	100	3.2	2.7	18	15	10

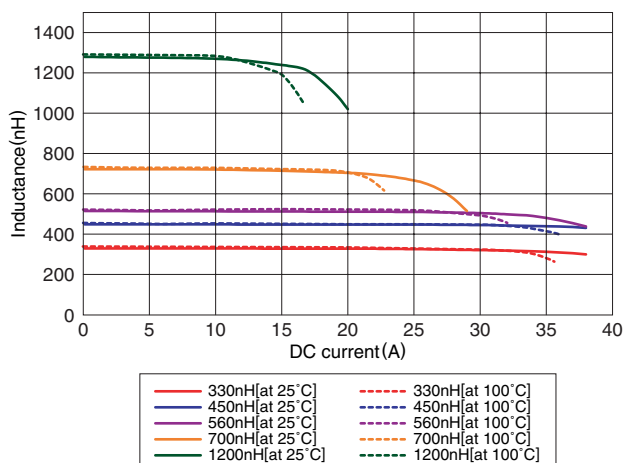
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• Operating temperature range: -40 to +125°C (Including self-temperature rise)

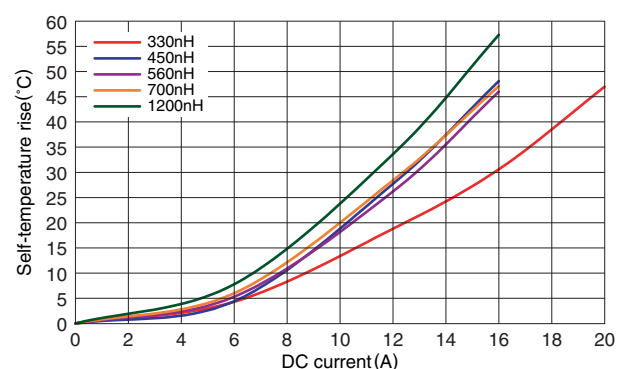
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TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



TEMPERATURE RISE CHARACTERISTICS



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Inductors for Power Supply Circuit Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLM Series VLM13580-D1

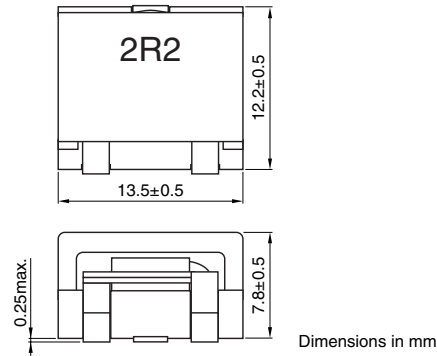
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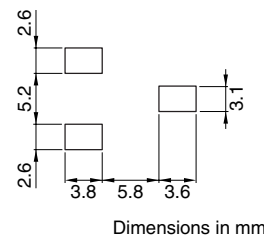
APPLICATIONS

Mobile computers etc.

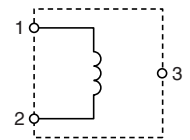
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance (%)	Test frequency (kHz)	DC resistance (mΩ)		Rated current(A)*		
				[±15%] max.	typ.	Based on inductance change max.	Based on temperature rise typ. Self-temperature rise 20°C	Self-temperature rise 40°C
VLM13580T-R82M-D1	0.82	±20	100	2	1.7	36	12.6	18.5
VLM13580T-1R5M-D1	1.5	±20	100	2.5	2.1	26	11.7	17.2
VLM13580T-2R2M-D1	2.2	±20	100	3.9	3.3	20	10.5	14.8
VLM13580T-3R3M-D1	3.3	±20	100	4.5	3.8	18	8.4	11.7

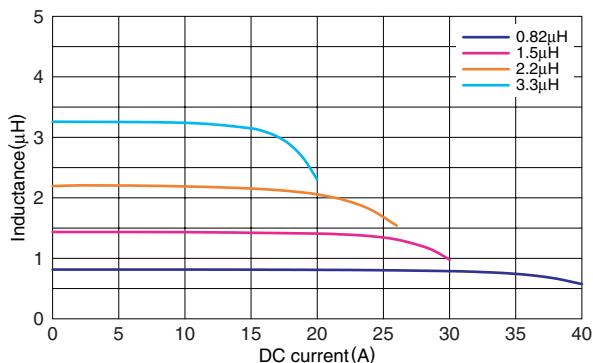
* Rated current: Value obtained when current flows and the temperature has risen to 20°C or 40°C or when DC current flows and the initial value of inductance has fallen by 30%, whichever is smaller.

• Operating temperature range: -40 to +150°C (Including self-temperature rise)

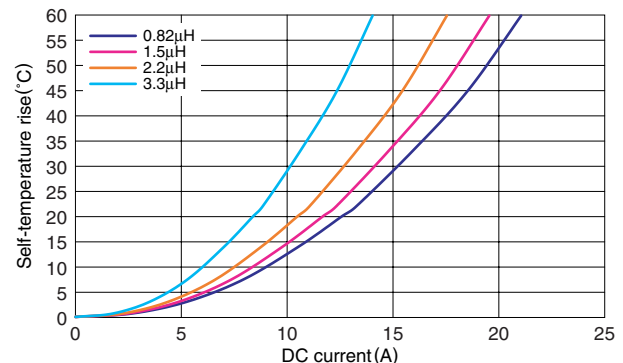
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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru