

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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Inductors for Power Supply Circuit Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

VLM Series VLM10555-2

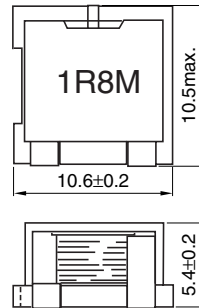
FEATURES

- 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.

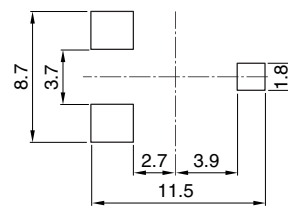
SHAPES AND DIMENSIONS



Dimensions in mm

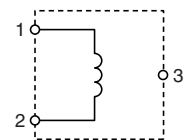


RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance (%)	Test frequency (kHz)	DC resistance (mΩ)		Rated current(A)*		
				[±15%]	typ.	Based on inductance change max.(typ.)		Based on temperature rise 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

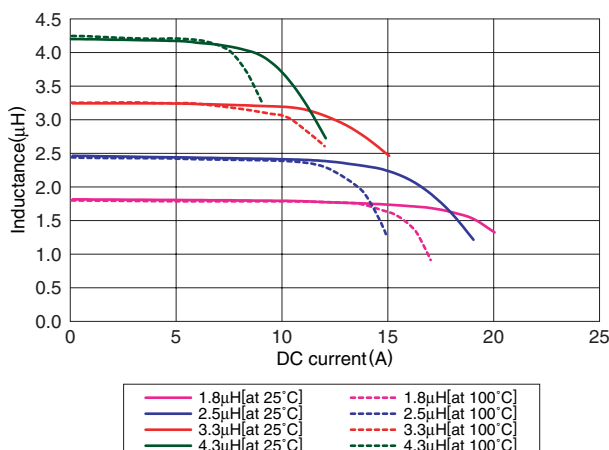
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

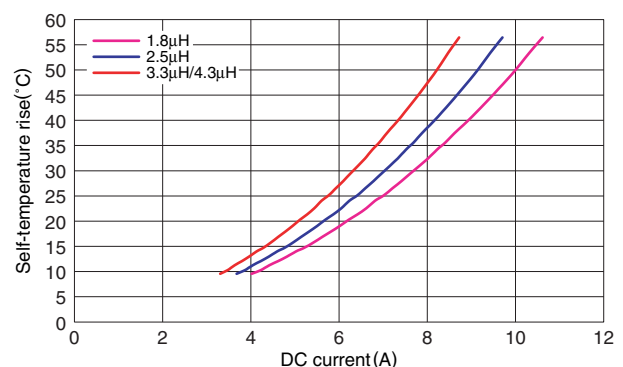
• Test equipment WK 3260B PRECISION MAGNETICS ANALYZER, WK 3265B 25A DC BIAS UNIT, or equivalent

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

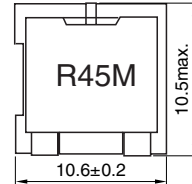
FEATURES

- Low loss and large current capability design.
- 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.

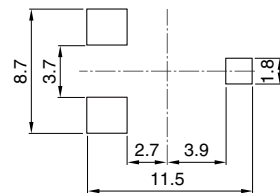
SHAPES AND DIMENSIONS



Dimensions in mm

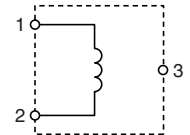


RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (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

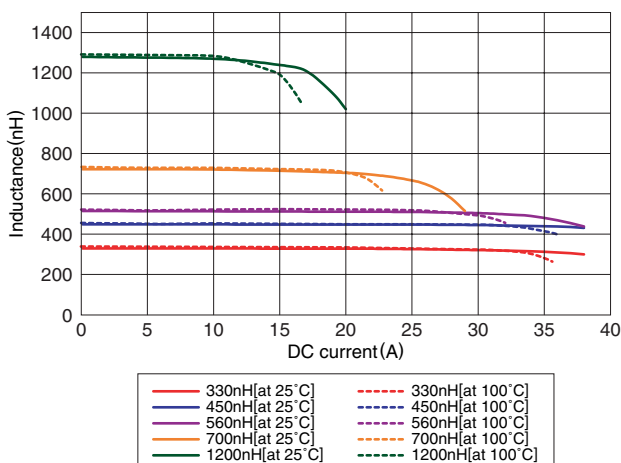
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• Operating temperature range: -40 to +125°C (Including self-temperature rise)

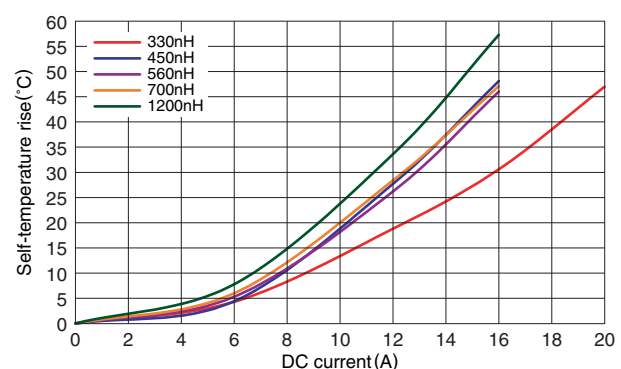
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TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



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Conformity to RoHS Directive

VLM Series VLM13580-D1

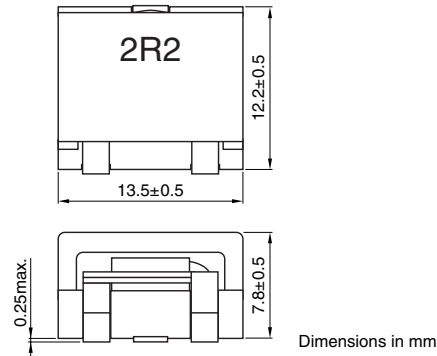
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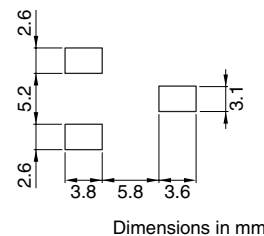
APPLICATIONS

Mobile computers etc.

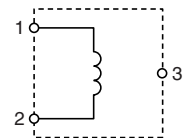
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RECOMMENDED PC BOARD PATTERN



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

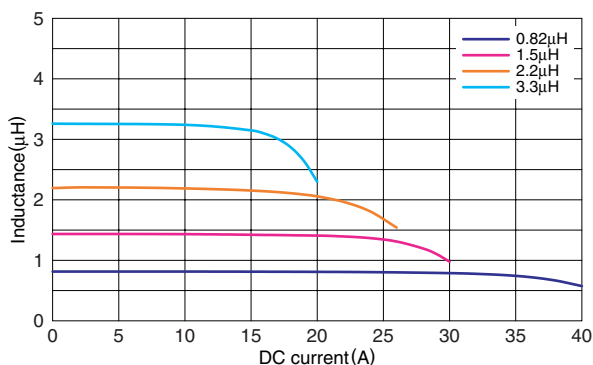
* Rated current: Value obtained when current flows and the temperature has risen to 20°C or 40°C or when DC current flows and the initial value of inductance has fallen by 30%, whichever is smaller.

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

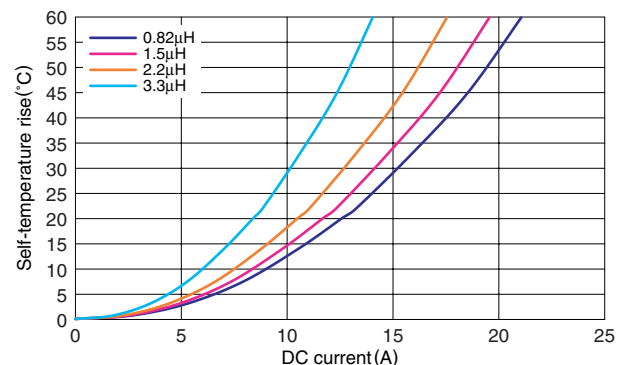
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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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