


NEW!

Shielded Power Inductors – XAL1580



- High current – up to 111 A
- Very low DCR – 0.50 mOhms
- Soft saturation makes them ideal for VRM/VRD applications.

Core material Composite

Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other terminations available at additional cost.

Weight 10.6 g

Ambient temperature –40°C to +90°C with Irms current, +90°C to +130°C with derated current.

Storage temperature Component: –40°C to +130°C.
Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 300/13" reel Plastic tape: 32 mm wide, 0.3 mm thick, 24 mm pocket spacing, 8.26 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² ±20% (µH)	DCR ³ (mOhms)		SRF typ ⁴ (MHz)	Isat ⁵ (A)	Irms (A) ⁶		Height ⁷
		typ	max			20°C rise	40°C rise	
XAL1580-401ME_	0.40	0.50	0.70	53.0	111	47.0	60.0	0.315/8.0
XAL1580-741ME_	0.74	0.72	0.86	35.1	86.0	43.2	59.7	0.315/8.0
XAL1580-102ME_	1.0	0.93	1.12	30.0	73.5	40.6	57.5	0.315/8.0
XAL1580-132ME_	1.3	1.15	1.38	26.2	65.0	34.6	46.7	0.307/7.8
XAL1580-182ME_	1.8	1.61	1.93	21.3	57.0	33.2	43.8	0.303/7.7
XAL1580-202ME_	2.0	1.91	2.29	20.1	51.0	29.5	39.9	0.303/7.7
XAL1580-302ME_	3.0	2.62	3.10	16.0	43.0	25.6	34.4	0.295/7.5
XAL1580-452ME_	4.5	3.82	4.58	12.5	34.2	20.4	27.0	0.295/7.5
XAL1580-532ME_	5.3	4.35	5.22	11.8	33.0	19.5	26.5	0.295/7.5
XAL1580-612ME_	6.1	5.66	6.79	11.7	31.0	16.9	22.6	0.291/7.4

1. When ordering, please specify **termination** and **packaging** codes:

XAL1580-612MED

Termination: E = RoHS compliant tin-silver over copper.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (300 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
- DCR measured on a micro-ohmmeter.
- SRF measured using Agilent/HP 4395A or equivalent.
- DC current at which the inductance drops 30% (typ) from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.
- Maximum height in inches/mm.
- Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Irms Testing

Irms testing was performed on 0.75 inch wide × 0.25 inch thick copper traces in still air.

Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.



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Document 891-1 Revised 07/25/12

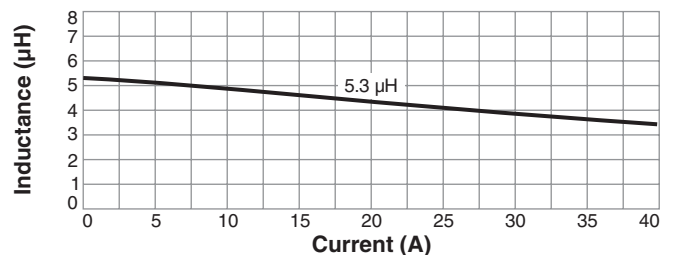
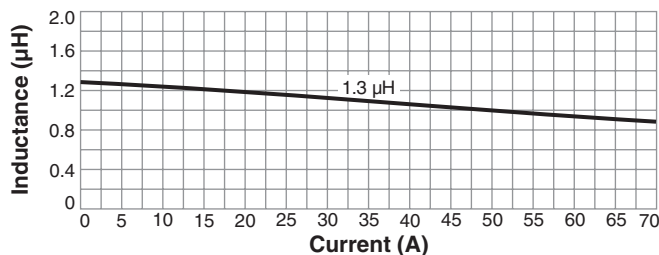
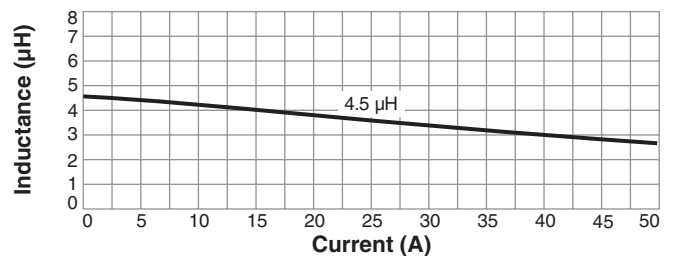
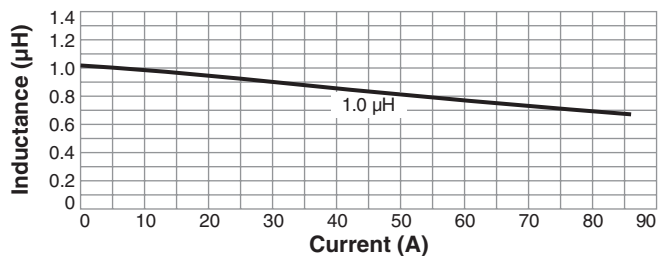
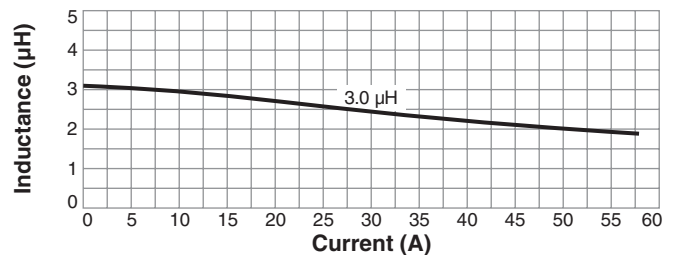
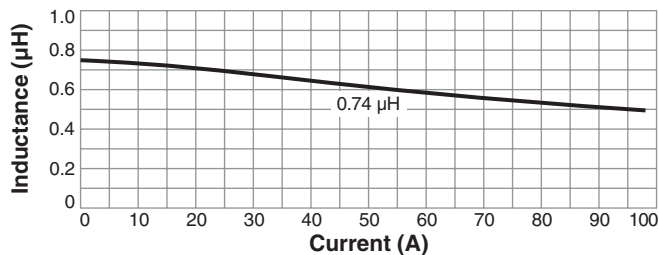
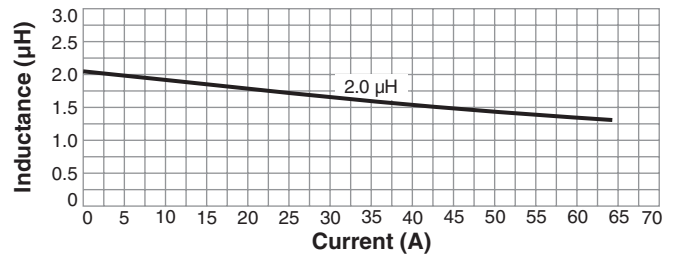
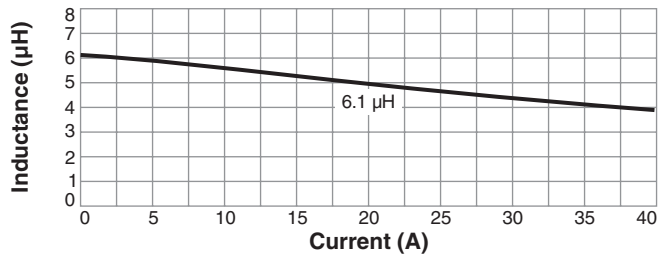
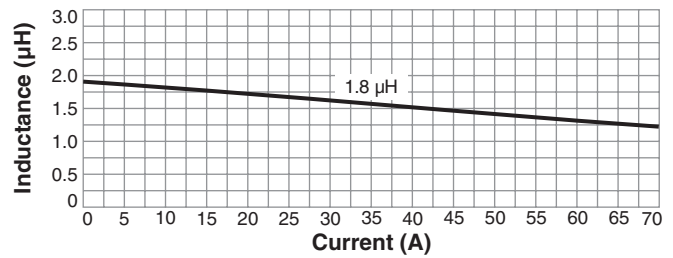
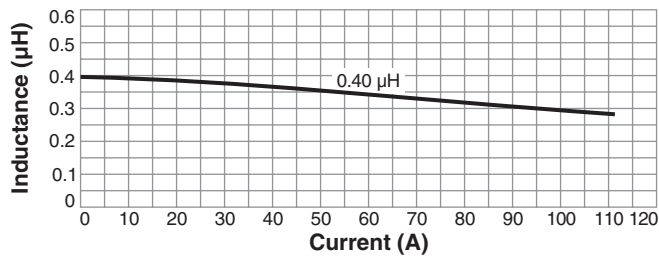
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Typical L vs Current


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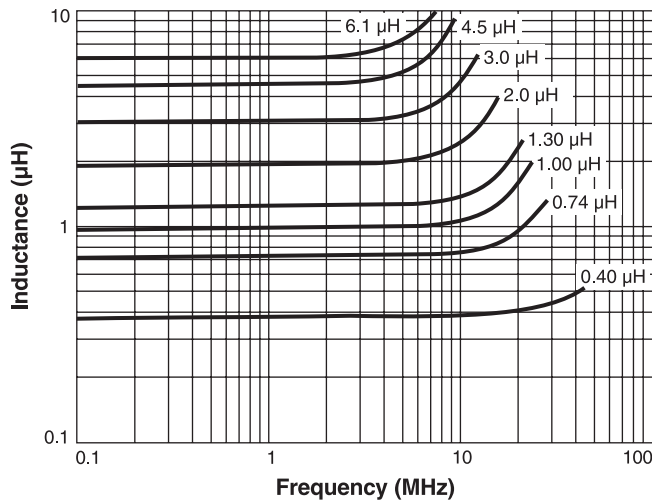
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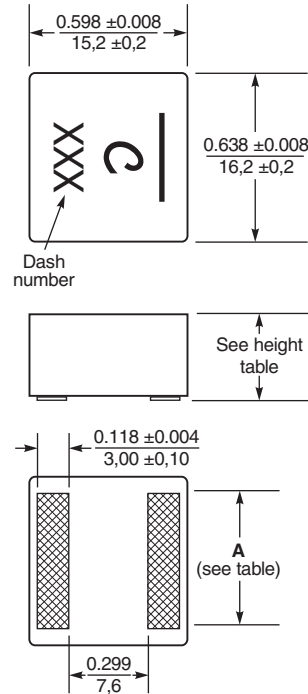
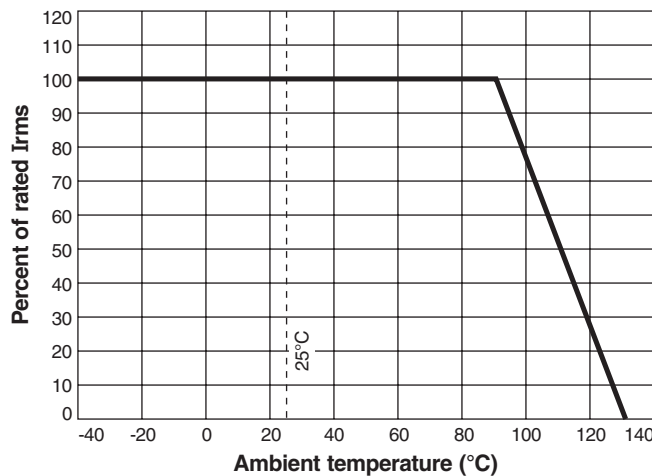

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Typical L vs Frequency



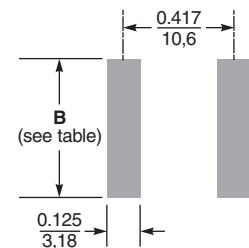
Irms Derating



Part number	Height max (inches / mm)
XAL1580-401	0.315 / 8.0
XAL1580-741	0.315 / 8.0
XAL1580-102	0.315 / 8.0
XAL1580-132	0.307 / 7.8
XAL1580-182	0.303 / 7.7
XAL1580-202	0.303 / 7.7
XAL1580-302	0.295 / 7.5
XAL1580-452	0.295 / 7.5
XAL1580-532	0.295 / 7.5
XAL1580-612	0.291 / 7.4

Dash number	A ±0.008 in ±0.20 mm (in / mm)	B (in / mm)
-401	0.518 / 13.16	0.557 / 14.16
-741	0.518 / 13.16	0.557 / 14.16
-102	0.518 / 13.16	0.557 / 14.16
-132	0.502 / 12.76	0.534 / 13.56
-182	0.494 / 12.56	0.522 / 13.26
-202	0.494 / 12.56	0.522 / 13.26
-302	0.479 / 12.16	0.498 / 12.66
-452	0.471 / 11.96	0.487 / 12.36
-532	0.471 / 11.96	0.487 / 12.36
-612	0.467 / 11.86	0.481 / 12.21

Recommended Land Pattern



Dimensions are in inches / mm


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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