Features

- Shielded construction
- Inductance range: 1 to 47 µH
- Heating current up to 5.1 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRR4818A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz/0.1 V		SRF (MHz) Typ.	DCR (mΩ)		I rms[1] (A) Typ.	I rms[2] (A) Typ.	I sat (A) Typ.
	L (µH)	Tol. (%)		Typ.	Max.			
SRR4818A-1R0Y	1.0	± 30	140	19.2	25.0	4.00	5.10	3.60
SRR4818A-1R5Y	1.5	± 30	105	25.2	35.0	3.75	4.70	3.00
SRR4818A-2R2Y	2.2	± 30	90	33.7	45.0	2.70	3.50	2.43
SRR4818A-3R3Y	3.3	± 30	70	42.8	55.0	2.50	3.10	2.10
SRR4818A-3R9Y	3.9	± 30	65	54.5	70.0	2.20	2.70	1.90
SRR4818A-4R7Y	4.7	± 30	55	59.4	80.0	2.00	2.60	1.50
SRR4818A-5R6Y	5.6	± 30	50	74.3	90.0	1.75	2.30	1.35
SRR4818A-6R8Y	6.8	± 30	45	82.1	100.0	1.65	2.20	1.25
SRR4818A-8R2Y	8.2	± 30	43	97.7	130.0	1.55	1.90	1.15
SRR4818A-100M	10	± 20	40	109.8	140.0	1.45	1.80	1.05
SRR4818A-120M	12	± 20	37	132.2	170.0	1.30	1.60	0.95
SRR4818A-150M	15	± 20	30	176.7	220.0	1.25	1.50	0.87
SRR4818A-180M	18	± 20	28	214.8	280.0	1.10	1.40	0.79
SRR4818A-220M	22	± 20	25	280.3	360.0	1.00	1.25	0.72
SRR4818A-270M	27	± 20	22	317.6	400.0	0.90	1.15	0.63
SRR4818A-330M	33	± 20	20	399.1	500.0	0.70	0.90	0.56
SRR4818A-390M	39	± 20	17	439.3	540.0	0.63	0.80	0.53
SRR4818A-470M	47	± 20	16	504.1	630.0	0.60	0.75	0.47

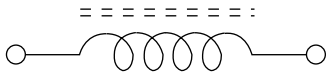
How to Order

SRR4818A - 1R0Y

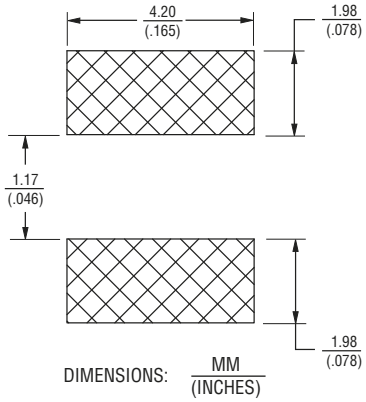
Model

Value Code (see table)

Electrical Schematic



Recommended Layout



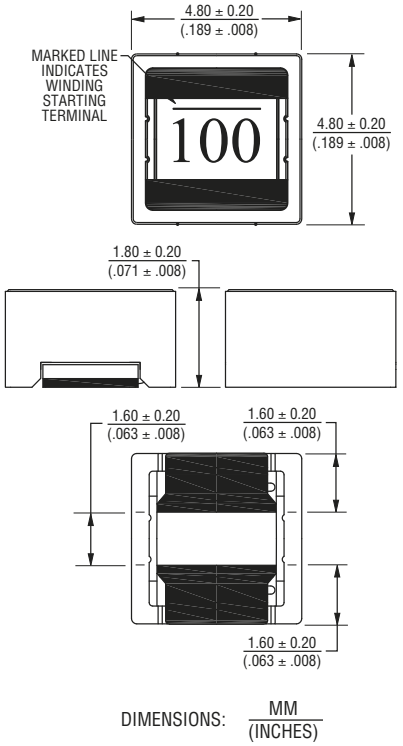
General Specifications

Operating Temp. ..... -40 °C to +150 °C
(Temperature rise included)
Storage Temperature .. -40 °C to +150 °C
Temperature Rise
..... 20 °C typ. at rated Irms[1]
40 °C typ. at rated Irms[2]
Rated Current
..... Inductance drops 35 % at Isat
Moisture Sensitivity Level..... 1
ESD Classification (HBM).....N/A

Materials

Core.....Ferrite
Wire .....Enameled copper
Terminal Finish .....Sn
Packaging..... 800 pcs. per 7-inch reel

Product Dimensions



Asia-Pacific:
Tel: +886-2 2562-4117
Fax: +886-2 2562-4116

Europe:
Tel: +41-41 768 5555
Fax: +41-41 768 5510

The Americas:
Tel: +1-951 781-5500
Fax: +1-951 781-5700

www.bourns.com

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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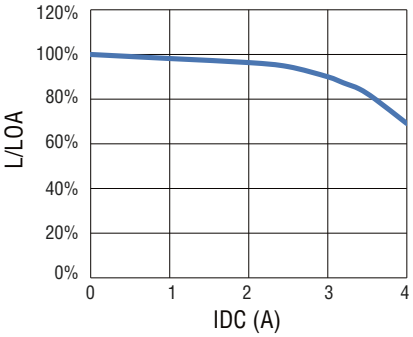
Inductance vs. IDC

SRR4818A-1R0Y



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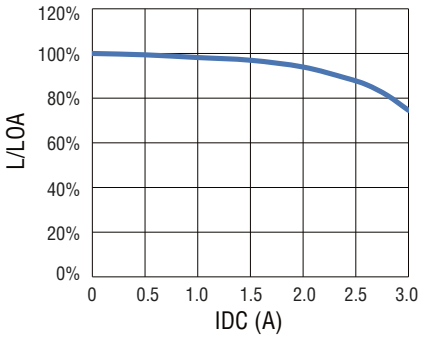

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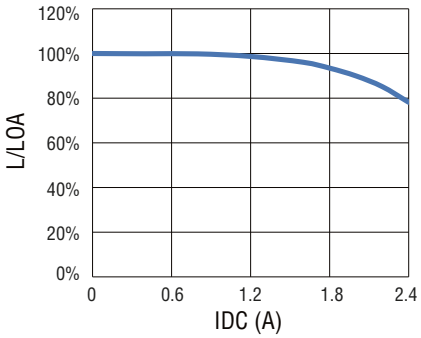

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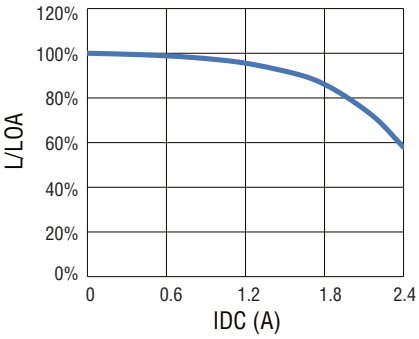

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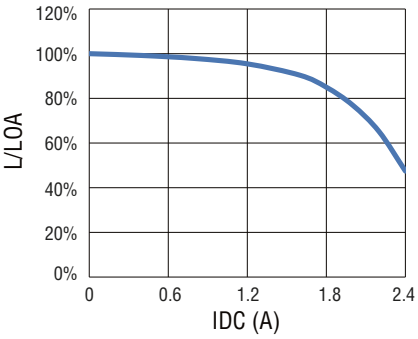

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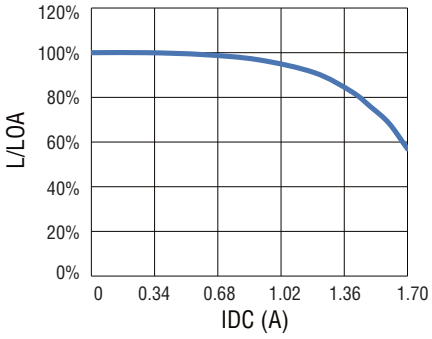

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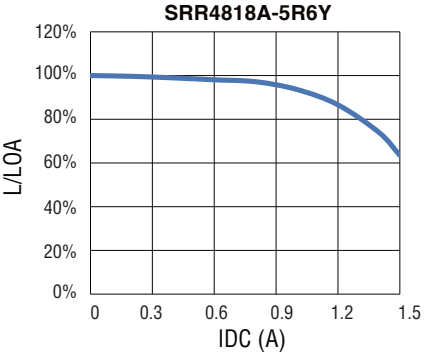

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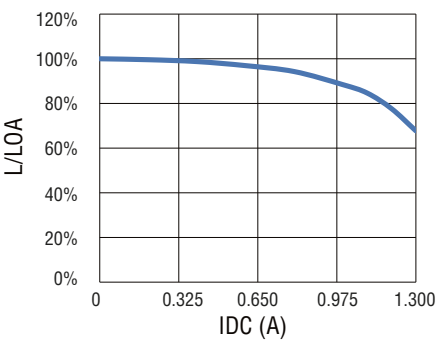

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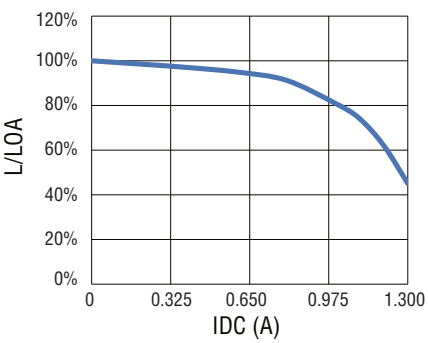

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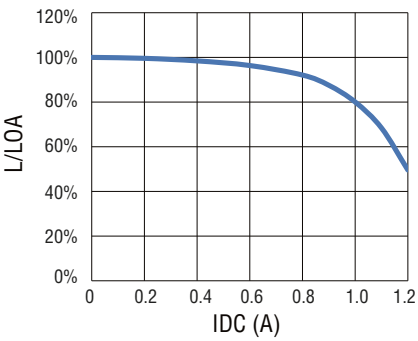

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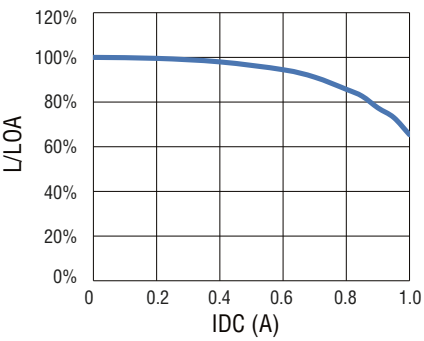
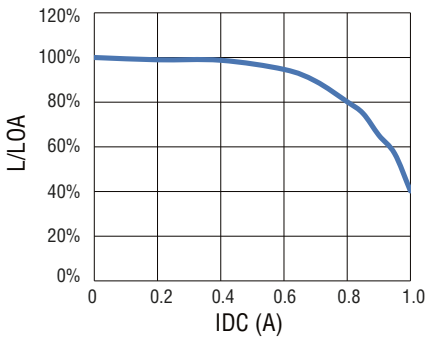


SRR4818A-150M



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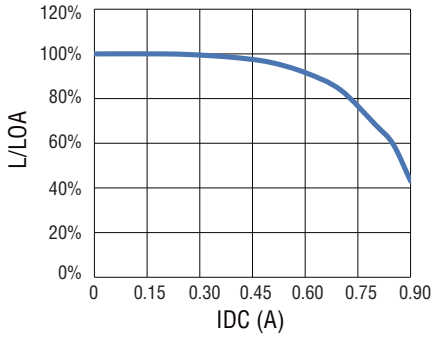
Inductance vs. IDC (Continued)

SRR4818A-180M



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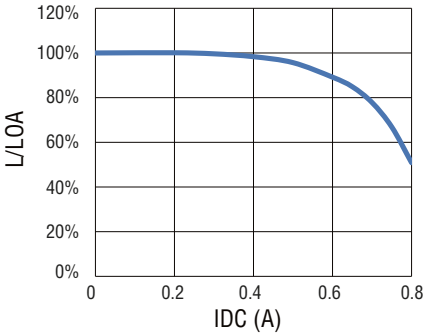

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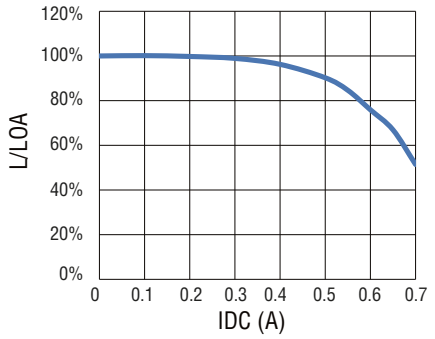

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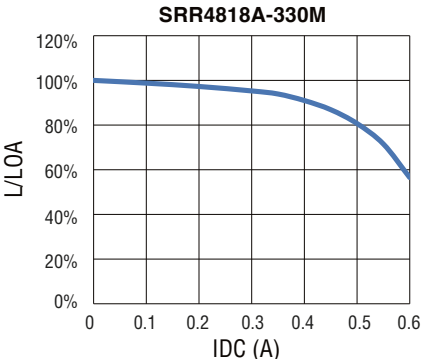

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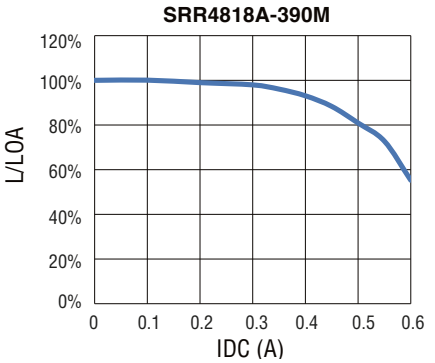

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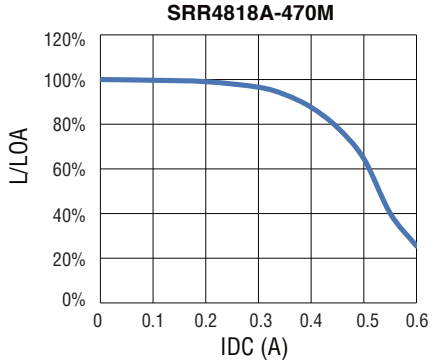
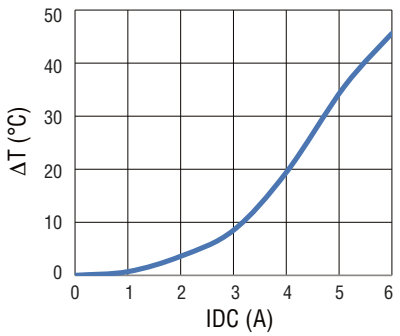


Temperature vs. IDC

SRR4818A-1R0Y



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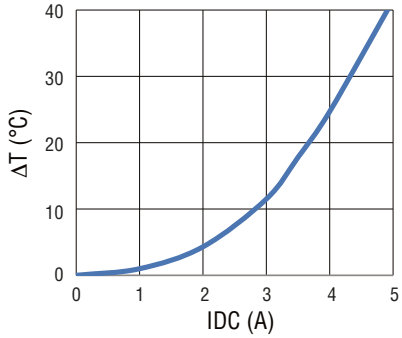

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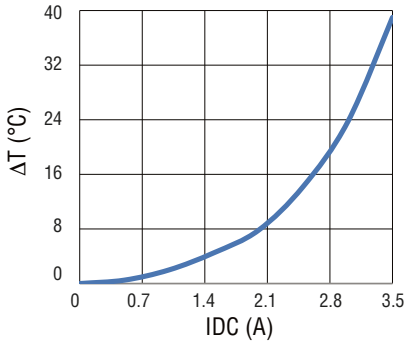

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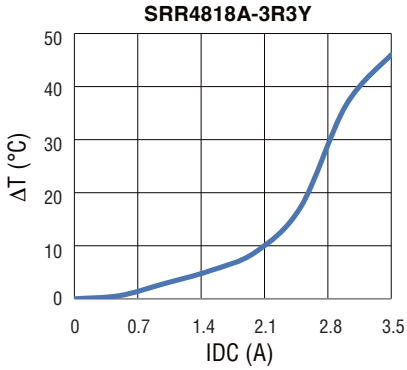

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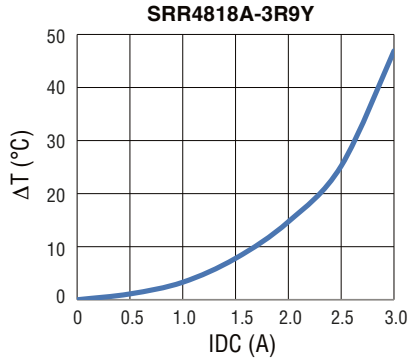

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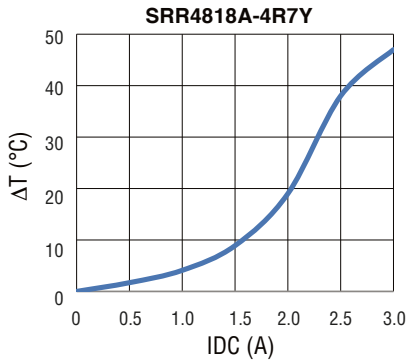

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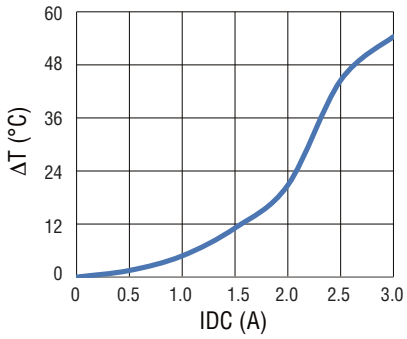
Temperature vs. IDC (Continued)

SRR4818A-5R6Y



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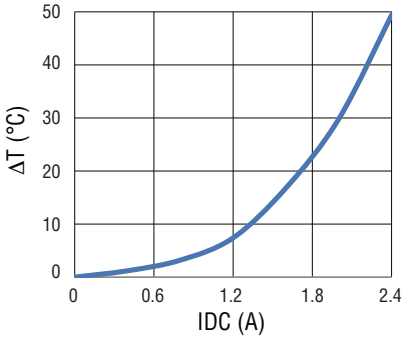

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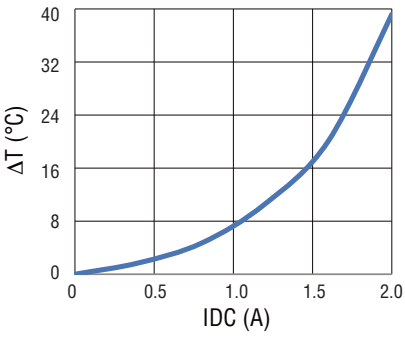
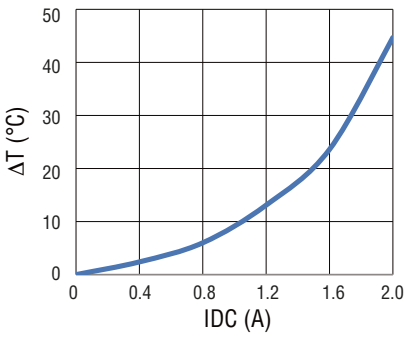


SRR4818A-100M



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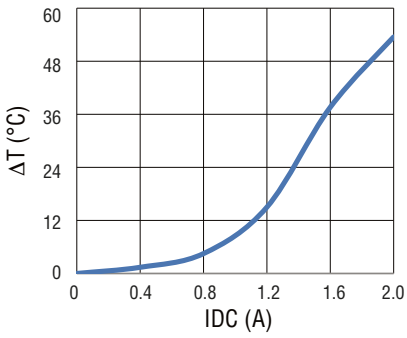

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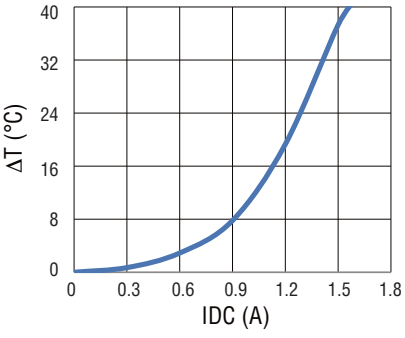

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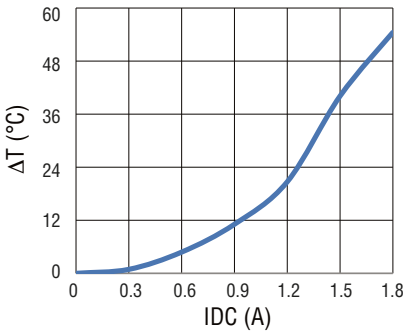

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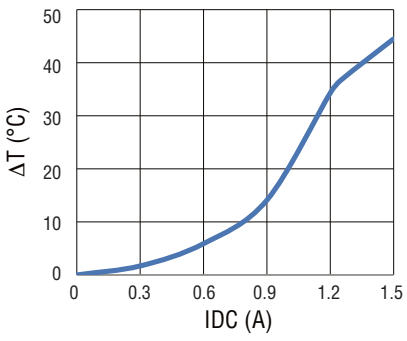

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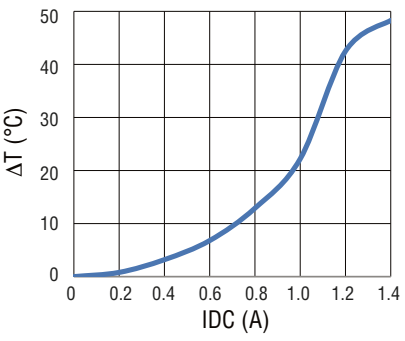
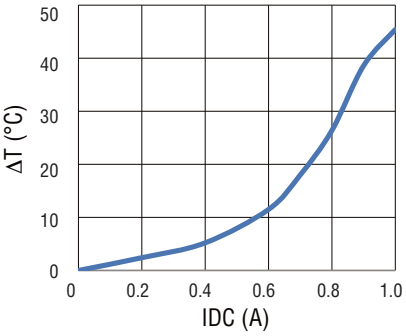


SRR4818A-330M



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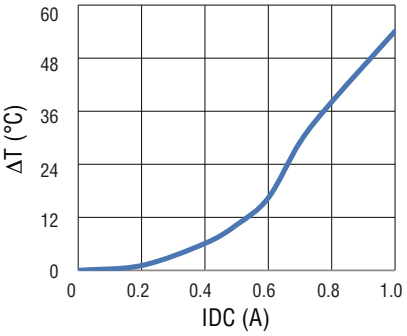

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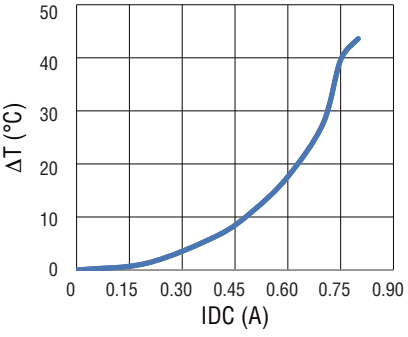

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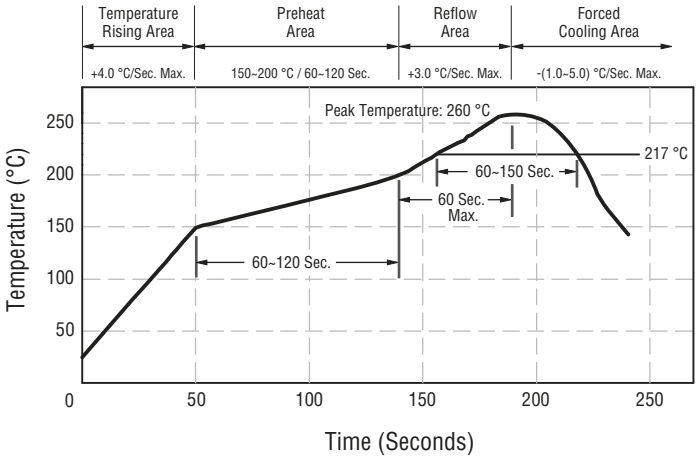
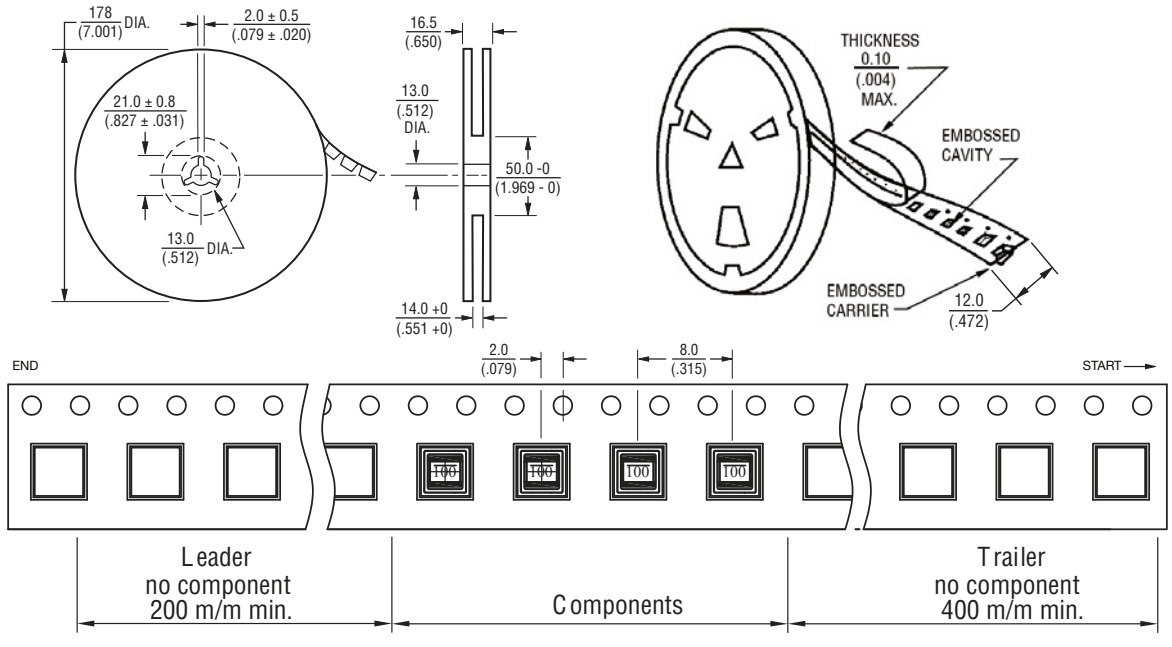
Soldering Profile



Peak Temperature: 260 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60~150 sec. max.

Packaging Specifications



USER DIRECTION OF FEED

QTY: 800 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 08/17

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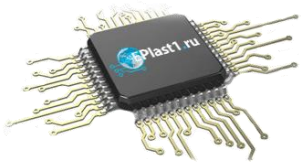
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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