

Features

- Shielded construction
- Inductance range: 1.2 to 220 µH
- Heating current up to 5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRR4828A 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.			
SRR4828A-1R2Y	1.2	± 30	155.0	18.5	24.0	3.50	5.00	3.00
SRR4828A-1R8Y	1.8	± 30	105.0	22.7	30.0	3.00	4.60	2.50
SRR4828A-2R7Y	2.7	± 30	80.0	26.2	34.0	2.50	4.00	2.20
SRR4828A-3R9Y	3.9	± 30	60.0	36.3	47.0	2.20	3.40	1.80
SRR4828A-4R7Y	4.7	± 30	50.0	41.4	54.0	2.10	3.00	1.60
SRR4828A-6R8Y	6.8	± 30	40.0	57.0	74.0	1.65	2.60	1.30
SRR4828A-8R2Y	8.2	± 30	35.0	66.8	87.0	1.60	2.40	1.25
SRR4828A-100M	10	± 20	30.0	76.4	100.0	1.50	2.30	1.10
SRR4828A-120M	12	± 20	27.0	100.0	125.0	1.35	2.00	0.95
SRR4828A-150M	15	± 20	25.0	108.8	145.0	1.30	1.80	0.92
SRR4828A-180M	18	± 20	22.0	125.0	160.0	1.20	1.70	0.80
SRR4828A-220M	22	± 20	20.0	145.9	185.0	1.10	1.55	0.68
SRR4828A-330M	33	± 20	15.0	208.2	260.0	0.90	1.40	0.60
SRR4828A-470M	47	± 20	13.0	215.0	270.0	0.88	1.20	0.47
SRR4828A-560M	56	± 20	12.0	260.4	320.0	0.85	1.05	0.40
SRR4828A-680M	68	± 20	11.0	294.3	370.0	0.80	0.90	0.38
SRR4828A-820M	82	± 20	10.0	381.9	480.0	0.70	0.85	0.35
SRR4828A-101M	100	± 20	8.5	495.3	600.0	0.65	0.70	0.33
SRR4828A-121M	120	± 20	8.0	630.0	760.0	0.50	0.65	0.30
SRR4828A-151M	150	± 20	7.0	713.9	860.0	0.45	0.60	0.28
SRR4828A-181M	180	± 20	6.0	899.1	1080.0	0.43	0.55	0.26
SRR4828A-221M	220	± 20	5.5	1000.7	1250.0	0.41	0.50	0.24

Additional Information

Click these links for more information:



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

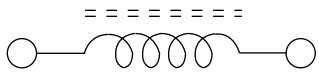
Core..... Ferrite
Wire .....Enameled copper
Terminal Finish ..... SnAgCu
Packaging..... 500 pcs. per 7-inch reel

How to Order

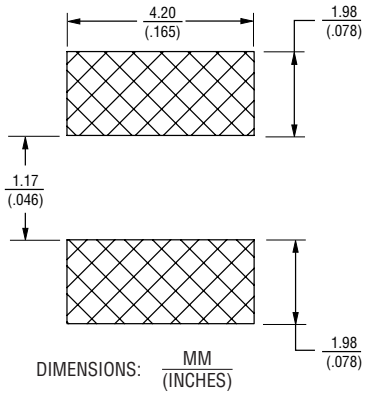
SRR4828A - 1R2Y

Model
Value Code (see table)

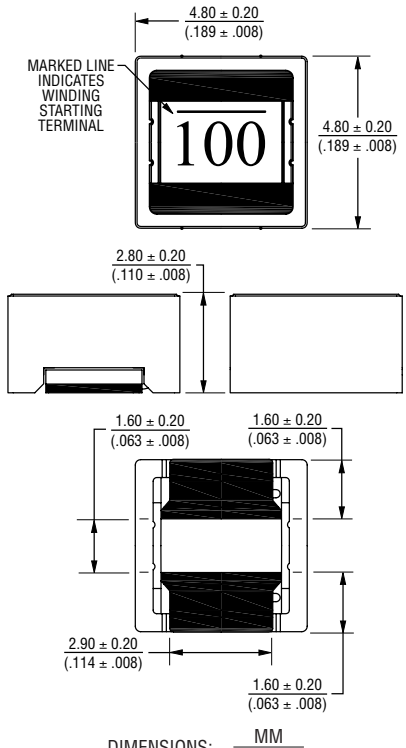
Electrical Schematic



Recommended Layout



Product Dimensions



BOURNS®

Americas: Tel: +1 951-781-5500
Email: americus@bourns.com

Mexico: Tel: +52-614-478-0400
Email: mexicus@bourns.com

Asia: Tel: +886-2-2562-4117
Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877
Email: eurocus@bourns.com

www.bourns.com

CALIFORNIA WARNING Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

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

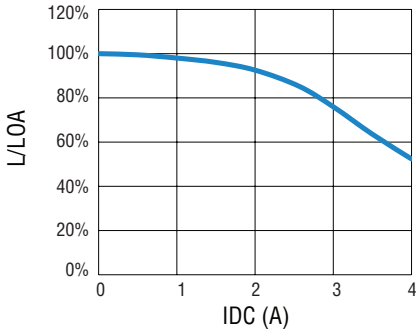
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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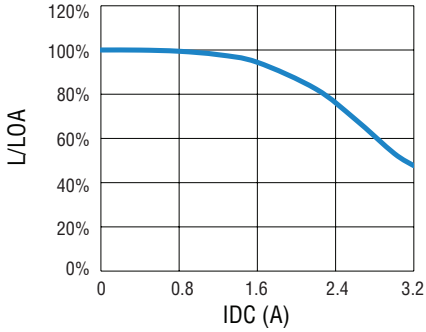
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Inductance vs. IDC

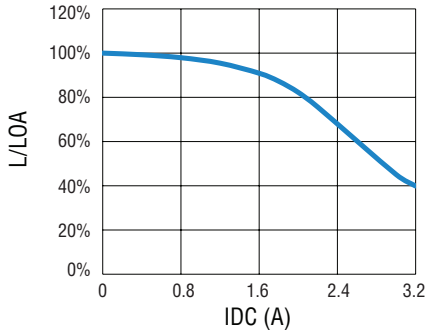
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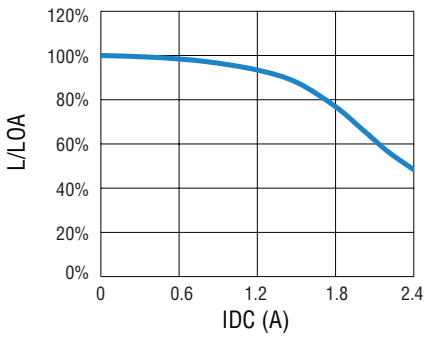
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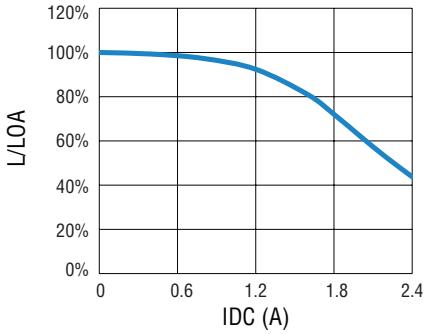
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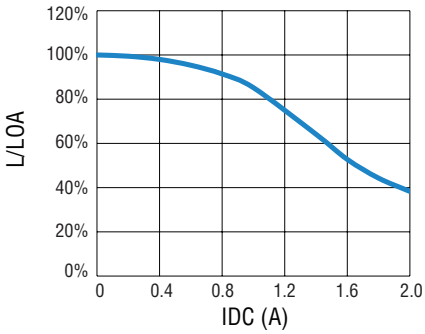
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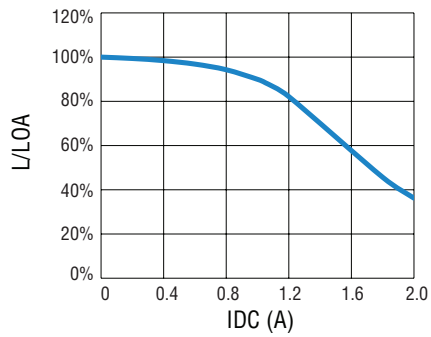
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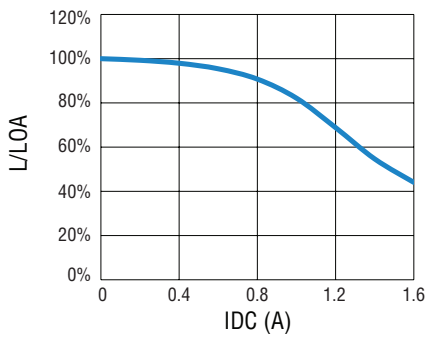
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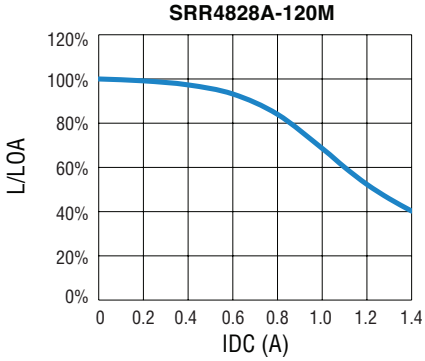
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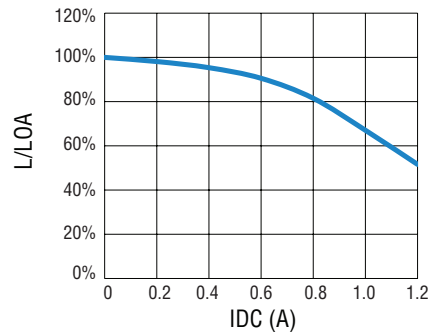
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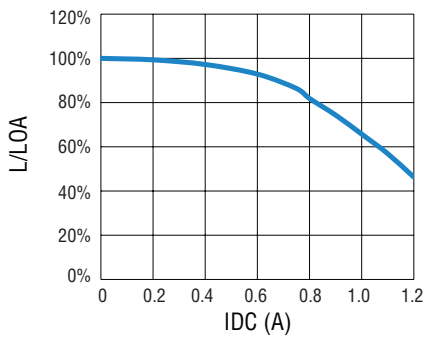
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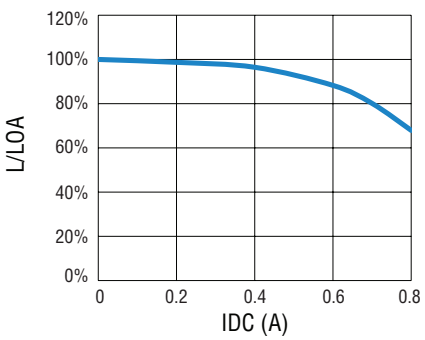
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SRR4828A-180M



SRR4828A-220M

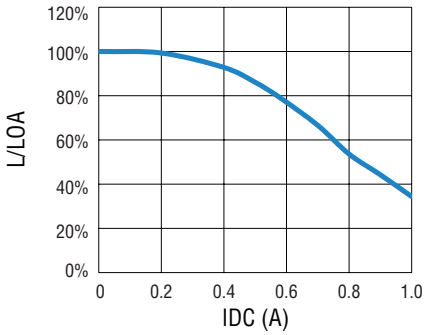


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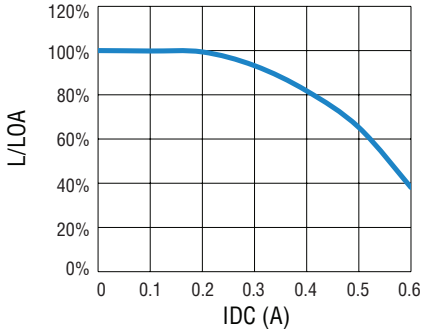
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Inductance vs. IDC (Continued)

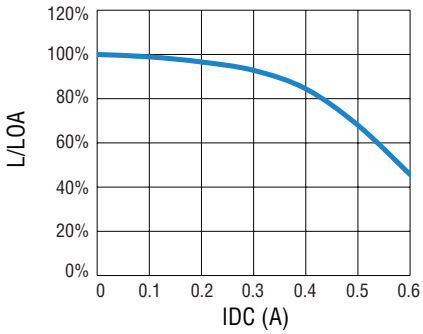
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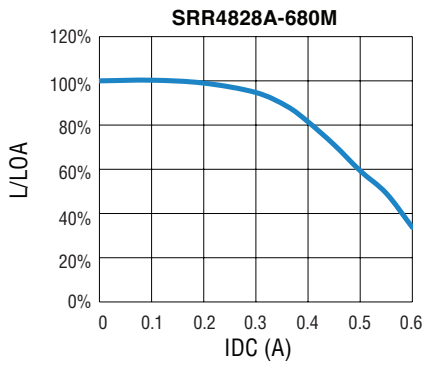
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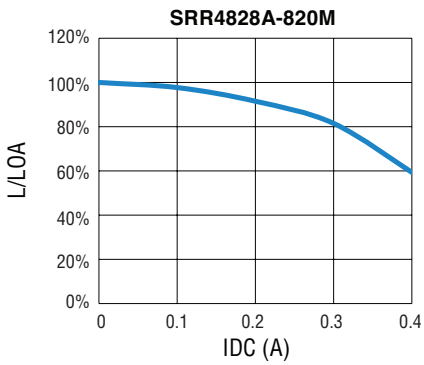
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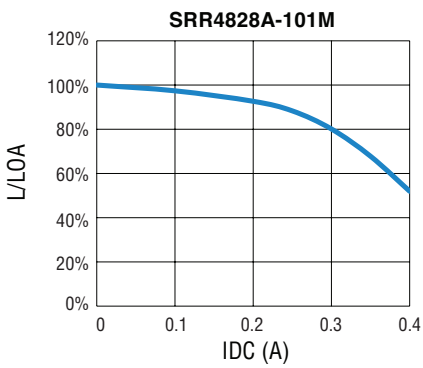
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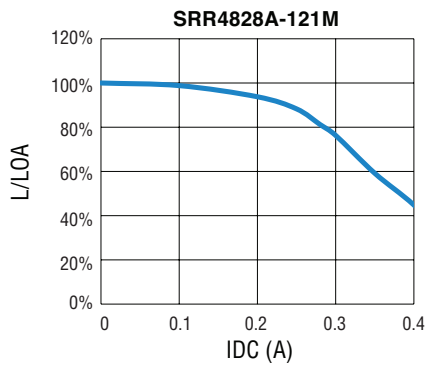
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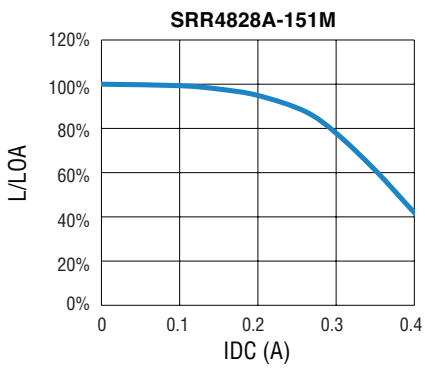
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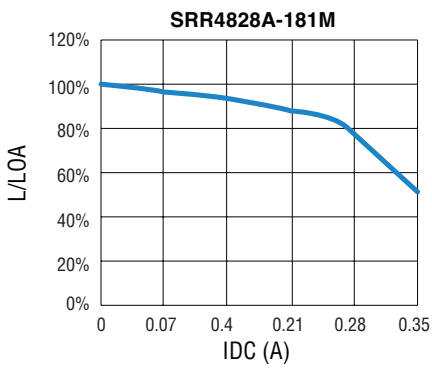
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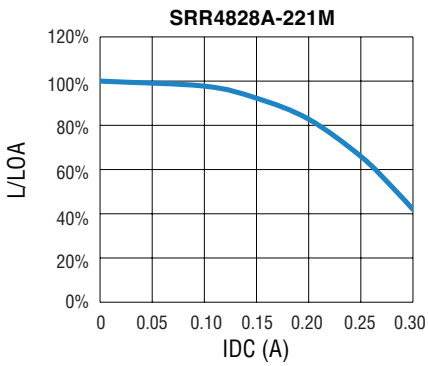
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SRR4828A-181M



SRR4828A-221M

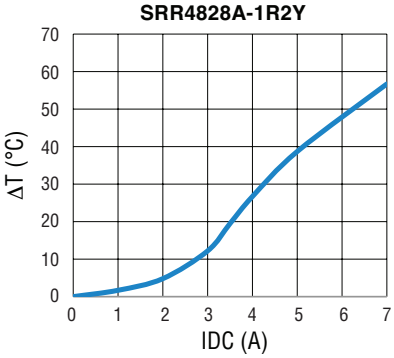


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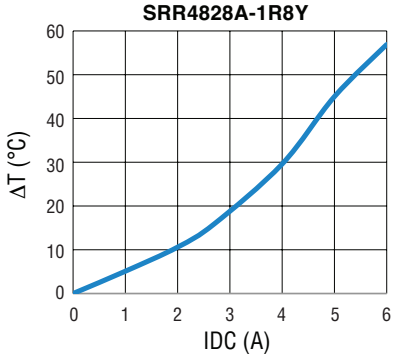
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Temperature vs. IDC

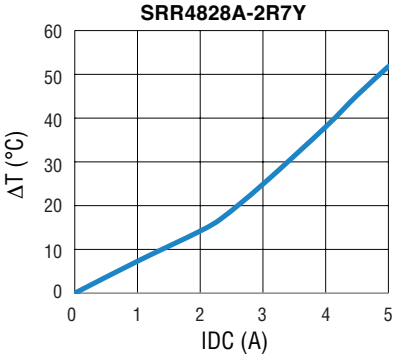
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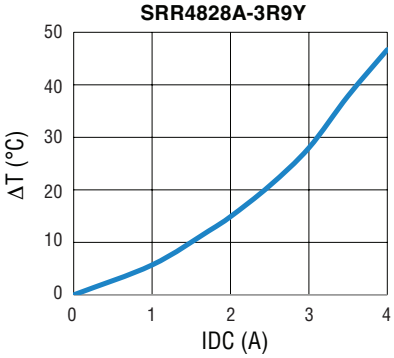
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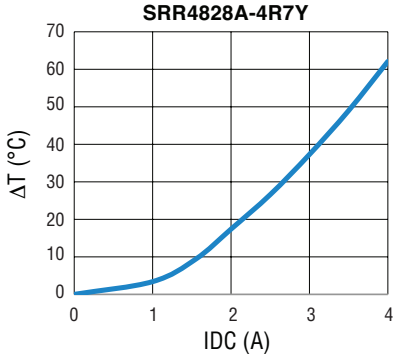
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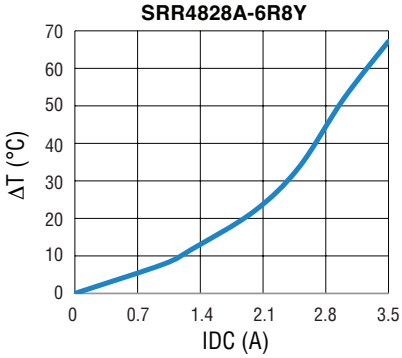
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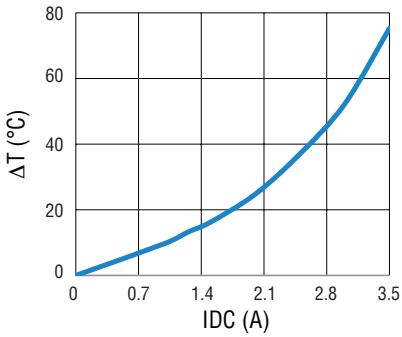
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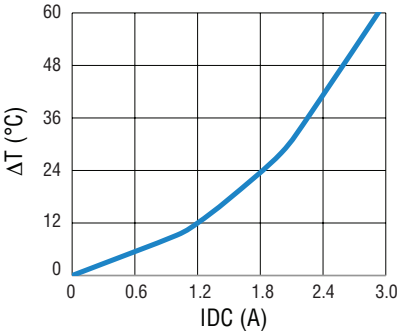
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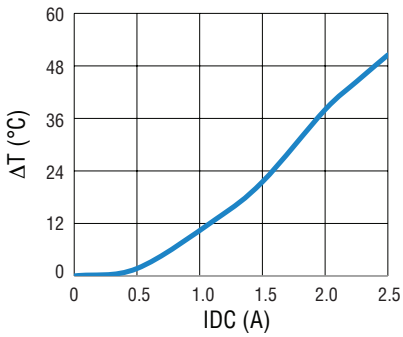
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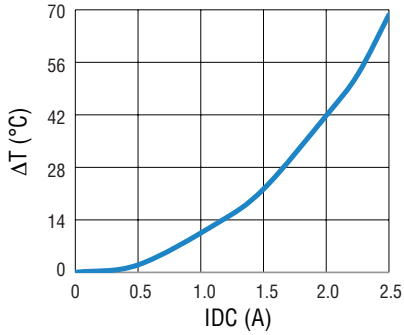
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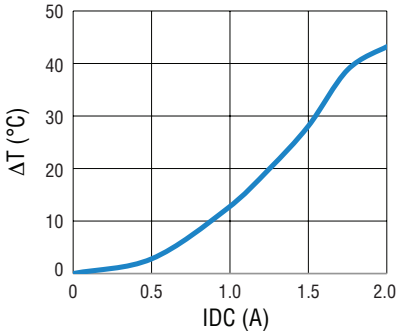
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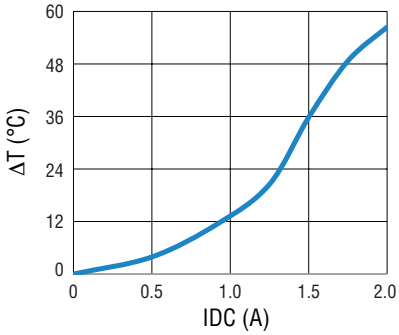
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SRR4828A-180M



SRR4828A-220M

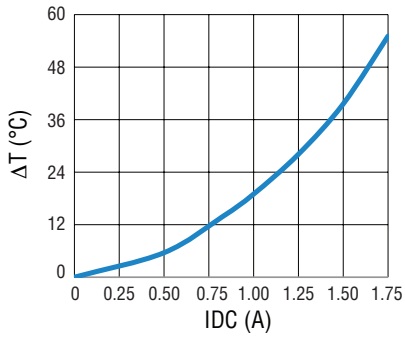


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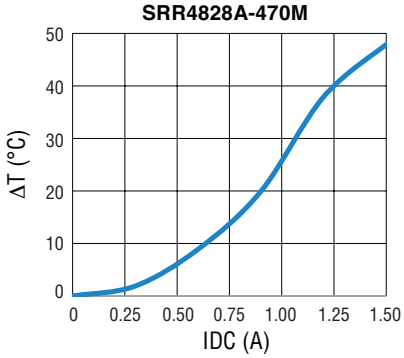
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Temperature vs. IDC (Continued)

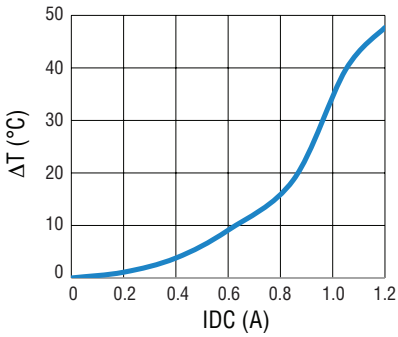
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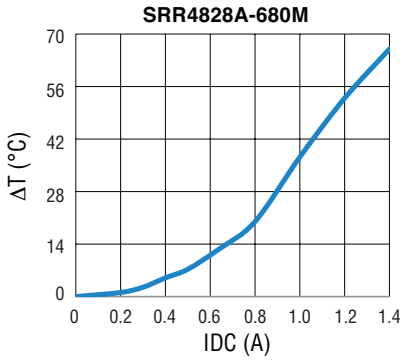
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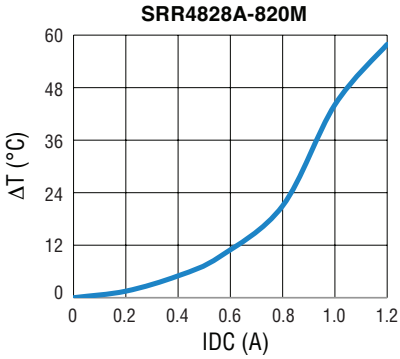
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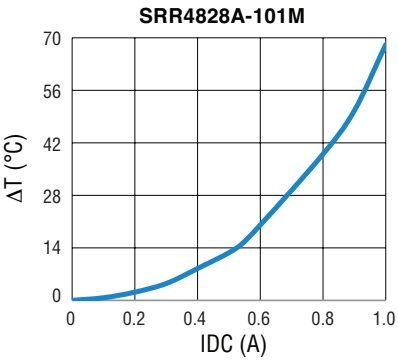
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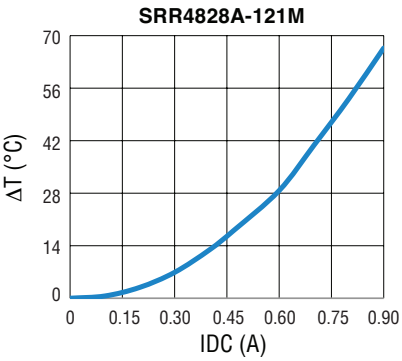
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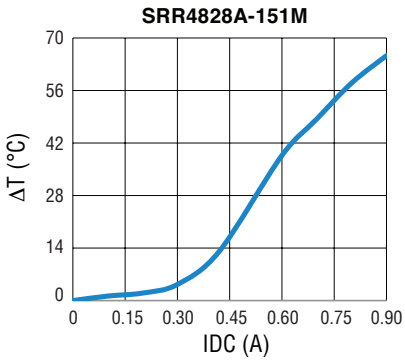
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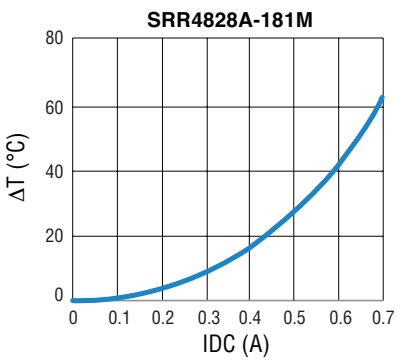
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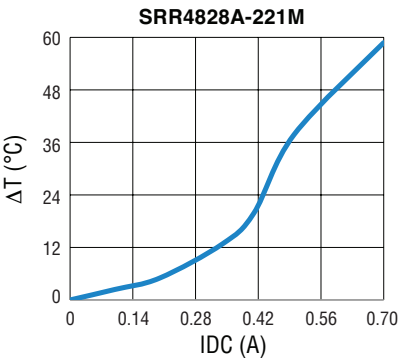
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SRR4828A-181M



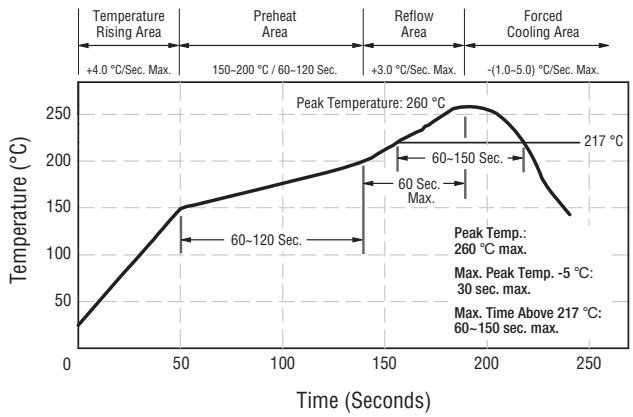
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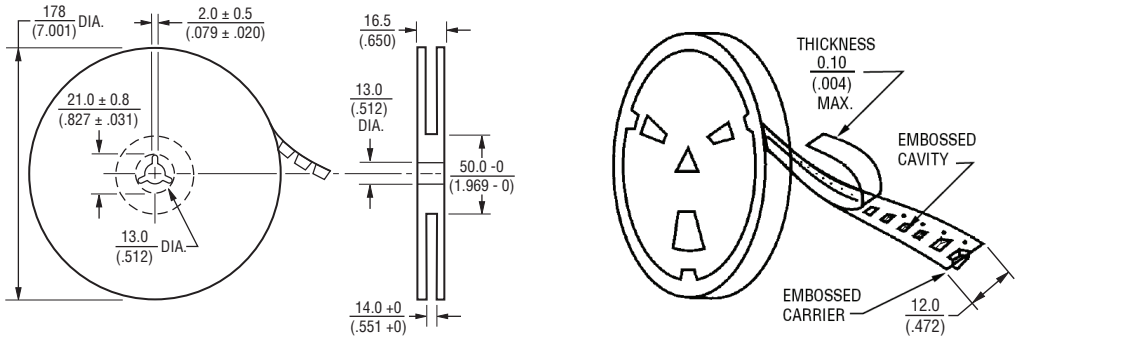
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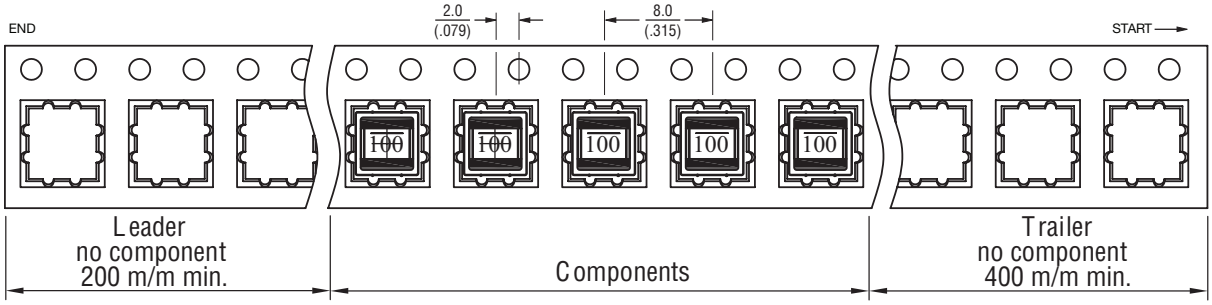
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Soldering Profile



Packaging Specifications





USER DIRECTION OF FEED

QTY: 500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 08/25

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