

Features

- High rated current
- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic placement
- AEC-Q200 compliant
- RoHS compliant*

Additional Information

Click these links for more information:

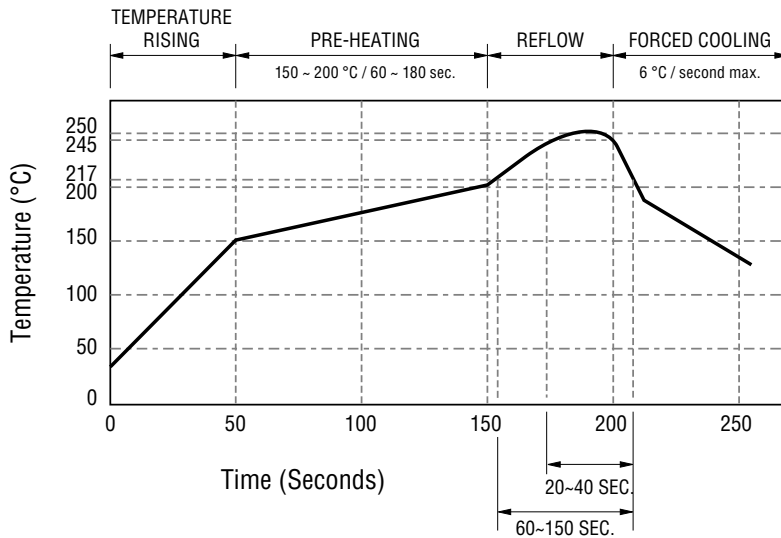


CC32252A Series – Chip Inductors

Electrical Specifications @ 25 °C

Bourns® Part No.	Inductance		Q Min.	L & Q Test Frequency (MHz)	SRF (MHz)	DCR (Ω)	I _{rms} (A)	I _{sat} (A)
	L (μH)	Tol.						
CC322522A-1R0K	1.00	±10 %	8	7.960	100	0.156	1.450	1.350
CC322522A-1R5K	1.50	±10 %	8	7.960	80	0.195	1.350	1.100
CC322522A-2R2K	2.20	±10 %	8	7.960	65	0.250	1.150	1.000
CC322522A-3R3K	3.30	±10 %	8	7.960	55	0.320	0.950	0.750
CC322522A-4R7K	4.70	±10 %	8	7.960	46	0.380	0.900	0.700
CC322522A-6R8K	6.80	±10 %	8	7.960	35	0.580	0.700	0.500
CC322522A-100K	10.00	±10 %	15	2.520	28	0.890	0.600	0.450
CC322522A-120K	12.00	±10 %	15	2.520	26	1.100	0.500	0.400
CC322522A-150K	15.00	±10 %	15	2.520	25	1.450	0.450	0.350
CC322522A-220K	22.00	±10 %	15	2.520	20	2.000	0.370	0.300
CC322522A-330K	33.00	±10 %	15	2.520	15	2.800	0.300	0.250
CC322522A-470K	47.00	±10 %	20	2.520	11	4.800	0.270	0.205
CC322522A-680K	68.00	±10 %	20	2.520	10	6.900	0.220	0.170
CC322522A-101K	100.00	±10 %	20	0.796	8	9.000	0.180	0.150

Soldering Profile (Lead Free Solder)



Reflow Profile

Peak Temperature 250 °C max.
 Max. Time Above 245 °C 20-40 sec. max.
 Max. Time Above 217 °C 60-150 sec. max.
 200 °C ~ 250 °C Average Ramp-up Rate 3 °C/sec. max.

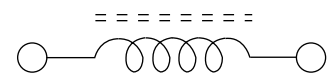
General Specifications

Operating Temperature -40 °C to +150 °C
 (Temperature rise included)
 Storage Temperature.. -40 °C to +150 °C
 Rated Current:
 Inductance drops 10 % at I_{sat}
 Temperature Rise
 40 °C at rated current
 Moisture Sensitivity Level 1
 ESD Classification (HBM)..... N/A

Materials

Core..... Ferrite
 Wire Enameled Copper
 Enclosure..... Epoxy resin
 Terminal Sn
 Packaging..... 2000 pcs. per 7-inch reel

Schematic



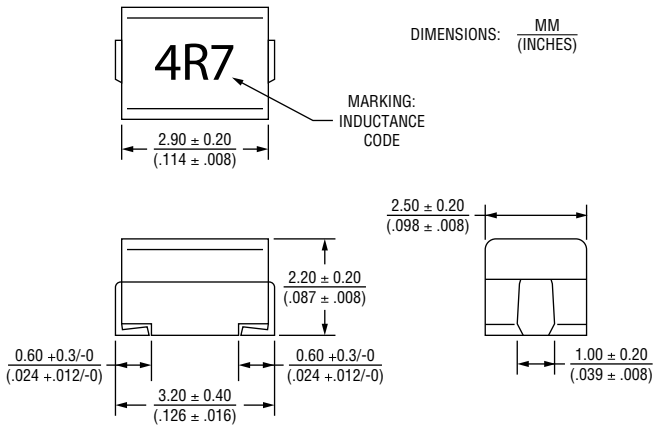
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 Specifications are subject to change without notice.
 Users should verify actual device performance in their specific applications.
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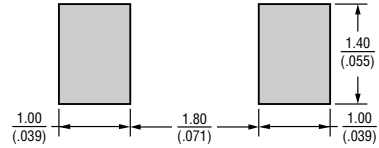
CC322522A Series – Chip Inductors



Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

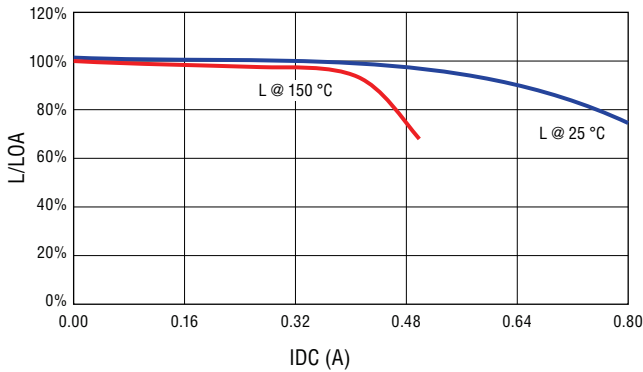
How to Order

CC322522A - 4R7K

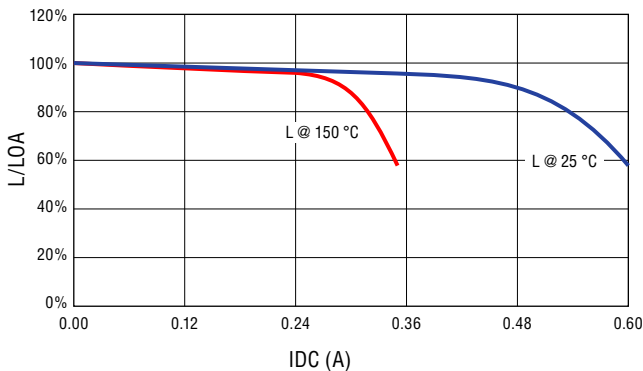
Model _____
Value Code (See Table) _____

L vs. IDC

CC322522A-4R7K

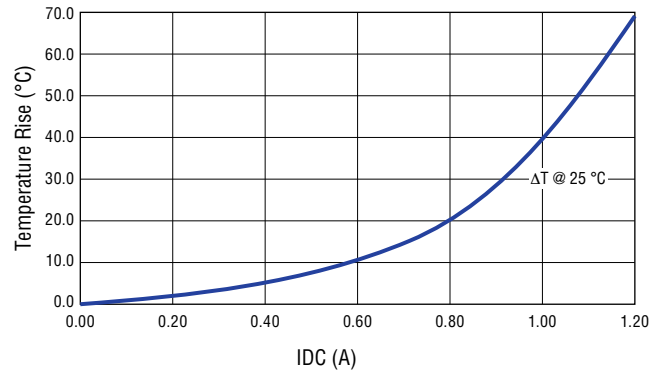


CC322522A-100K

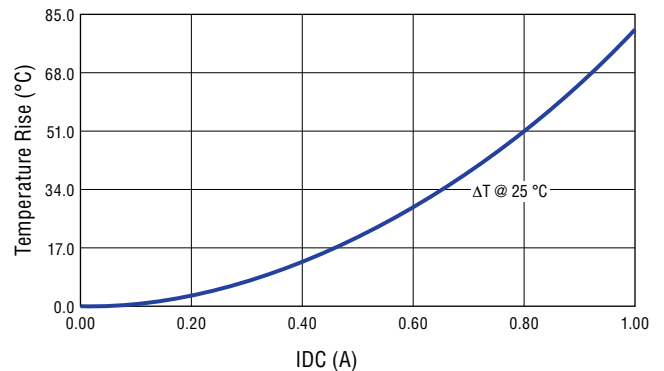


Temperature Rise vs. IDC

CC322522A-4R7K



CC322522A-100K



Specifications are subject to change without notice.

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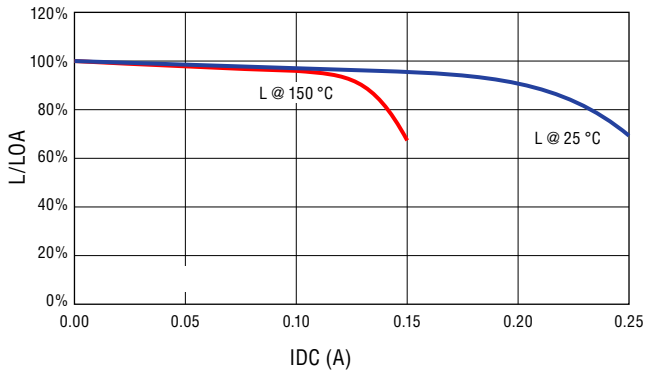
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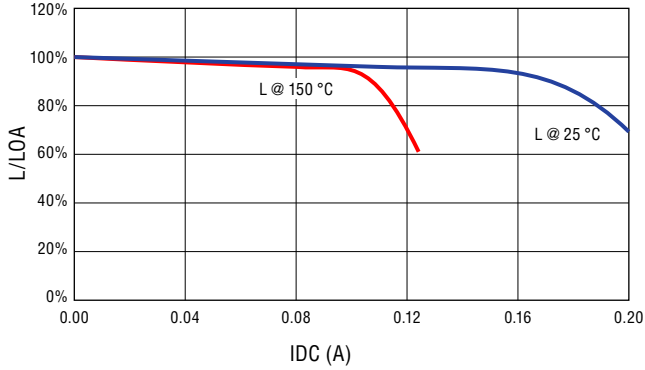
BOURNS®

L vs. IDC

CC322522A-470K

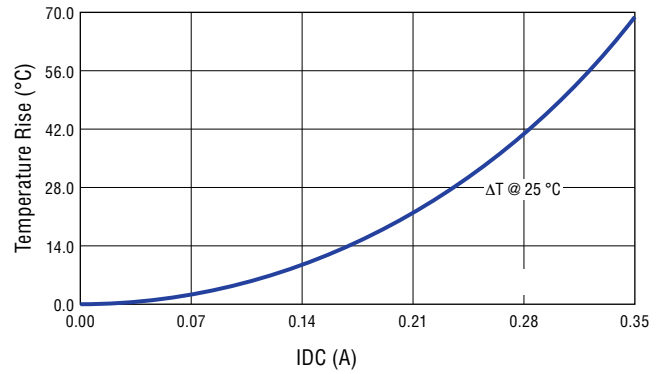


CC322522A-101K

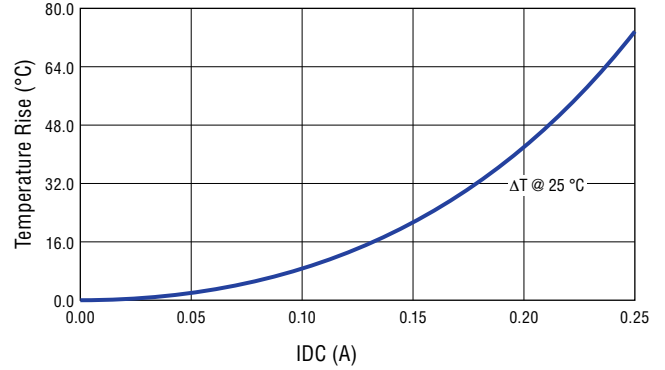


Temperature Rise vs. IDC

CC322522A-470K



CC322522A-101K



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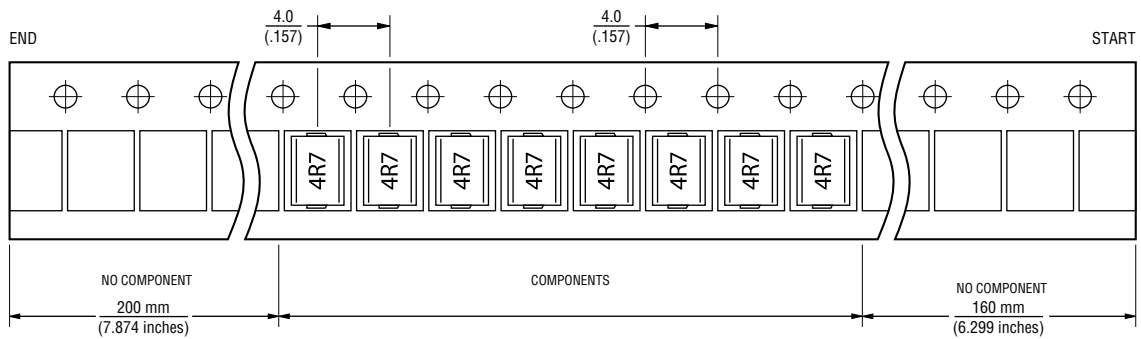
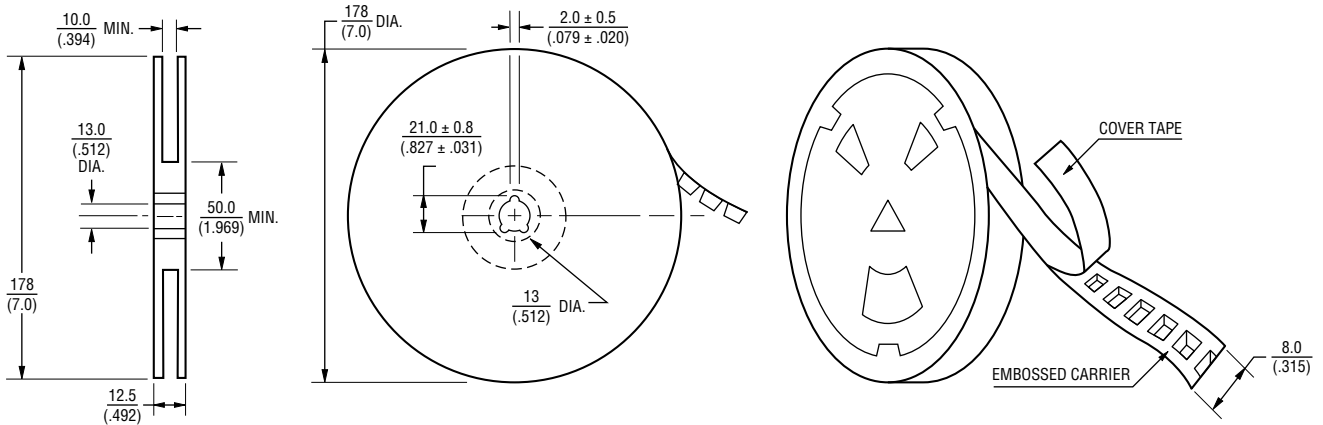
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CC322522A Series – Chip Inductors

BOURNS®

Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

USER DIRECTION OF FEED →
QTY: 2,000 PCS PER REEL

BOURNS®

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

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

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REV. 06/24

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