



### Features

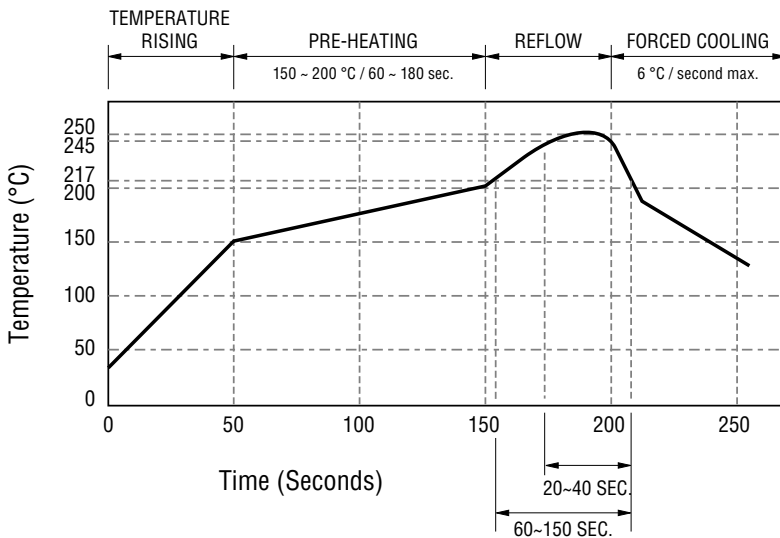
- High rated current
- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic placement
- AEC-Q200 compliant
- RoHS compliant\*

## CC322522A Series – Chip Inductors

### Electrical Specifications @ 25 °C

Bourns® Part No.	Inductance		Q Min.	L & Q Test Frequency (MHz)	SRF (MHz)	DCR (Ω)	I <sub>rms</sub> (A)	I <sub>sat</sub> (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.

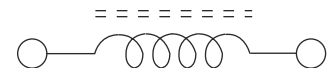
### General Specifications

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

### Materials

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

### Schematic



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

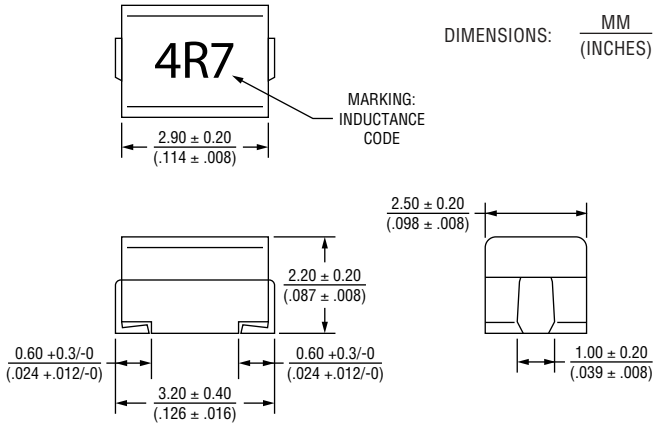
\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

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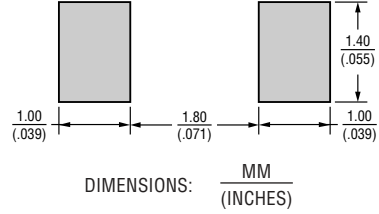
# CC322522A Series – Chip Inductors

**BOURNS®**

## Product Dimensions



## Recommended Layout



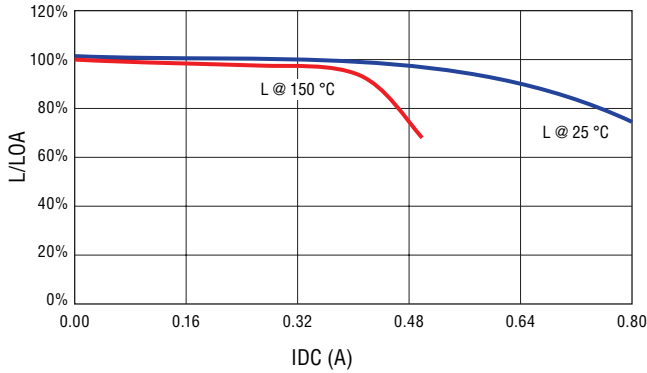
## How to Order

Model CC322522A - 4R7K

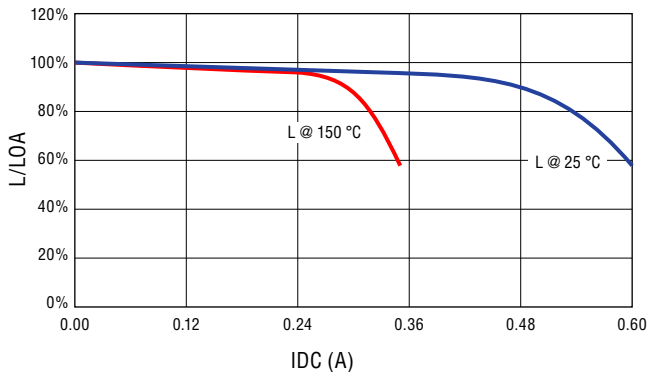
Value Code (See Table) \_\_\_\_\_

## L vs. IDC

CC322522A-4R7K

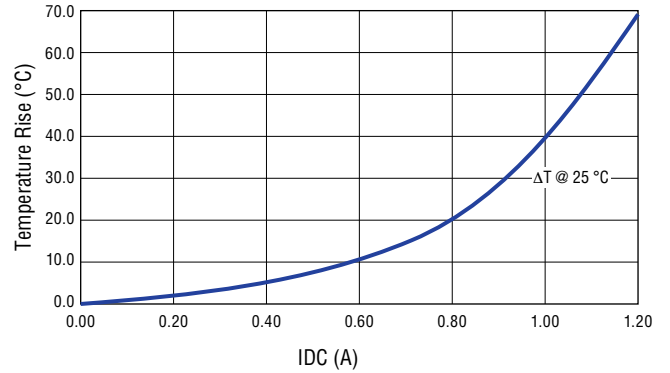


CC322522A-100K

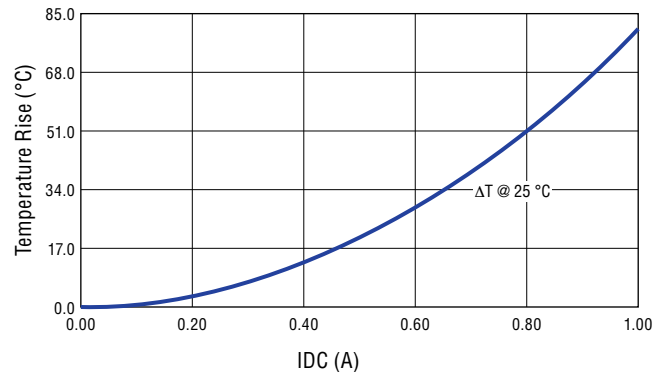


## Temperature Rise vs. IDC

CC322522A-4R7K



CC322522A-100K



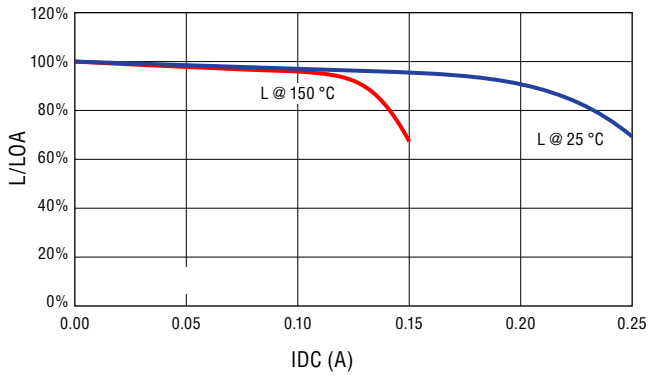
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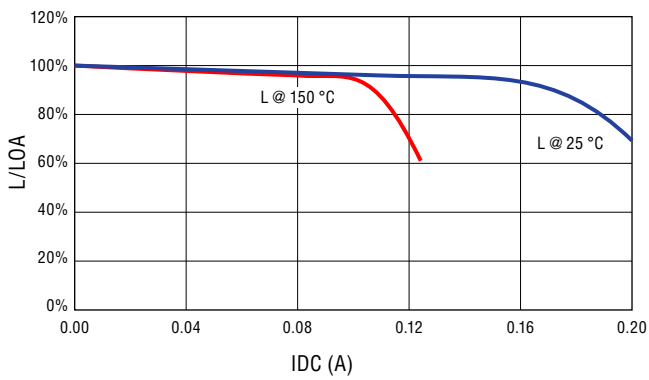
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## L vs. IDC

**CC322522A-470K**

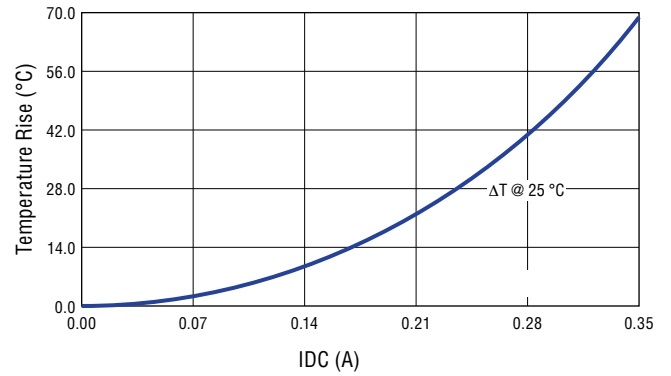


**CC322522A-101K**

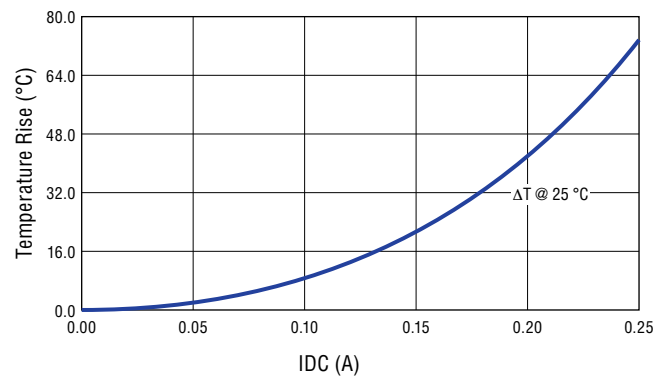


## Temperature Rise vs. IDC

**CC322522A-470K**



**CC322522A-101K**



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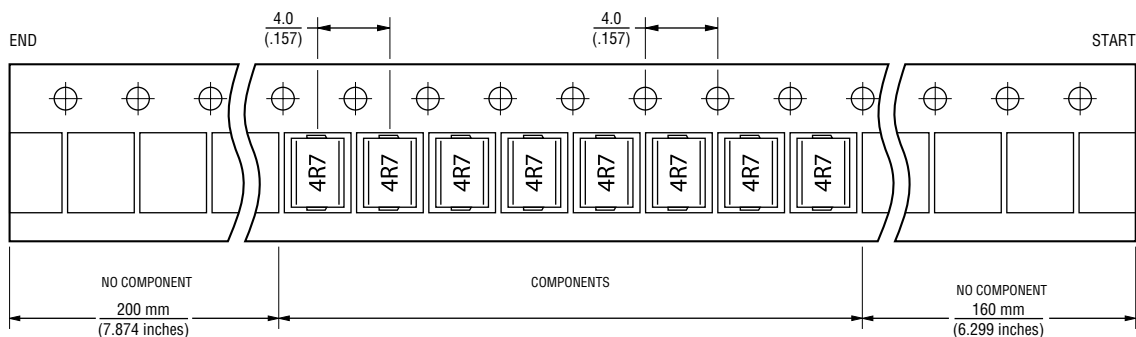
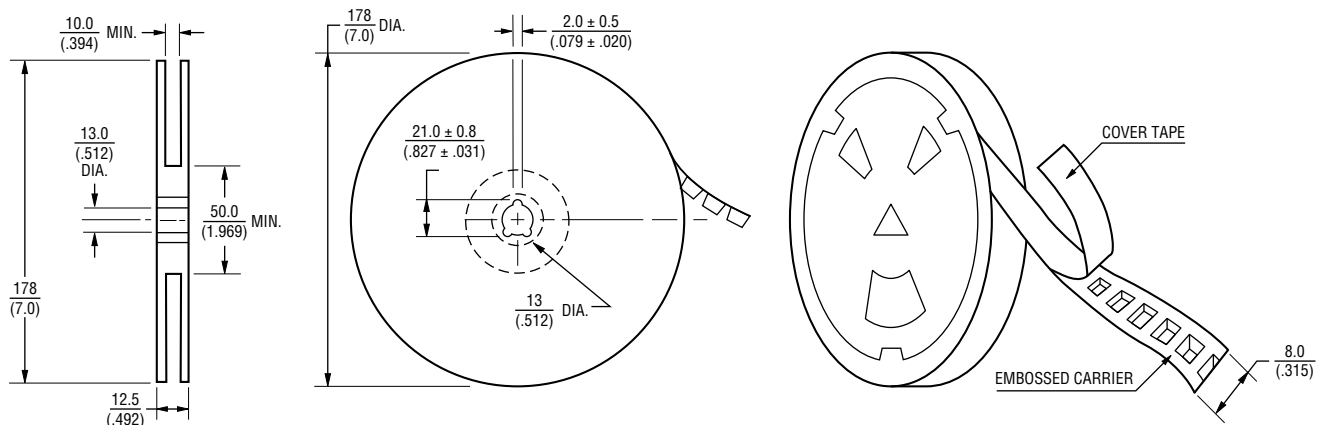
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# CC322522A Series – Chip Inductors

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## Packaging Specifications



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

USER DIRECTION OF FEED  $\rightarrow$   
QTY: 2,000 PCS PER REEL

**BOURNS®**

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