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Features

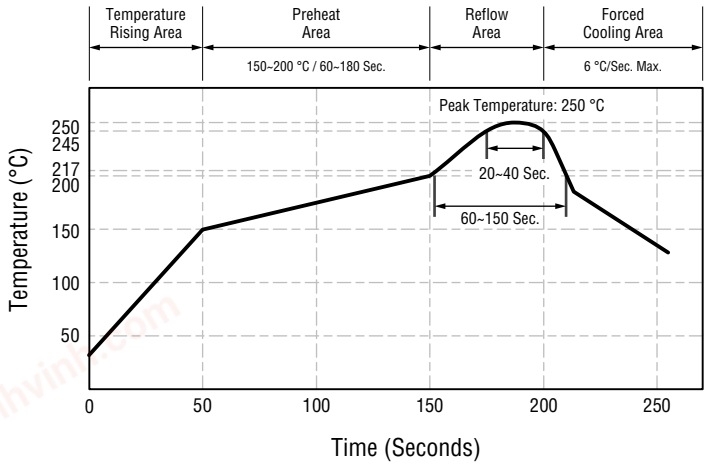
- High rated current
- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Tight dimension tolerances for automatic placement
- AEC-Q200 compliant
- RoHS compliant*

CC453232A Series – Chip Inductors

Electrical Specifications @ 25 °C

Bourns® Part No.	Inductance		Q Min.	L & Q Test Frequency (MHz)	SRF (MHz)	DCR (Ω)	Irms (A)	Isat (A)
	L (μH)	Tol.			Min.	Max.	Typ.	Typ.
CC453232A-1R0KL	1.00	±10 %	10	7.960	180.0	0.100	2.30	2.25
CC453232A-1R5KL	1.50	±10 %	10	7.960	110.0	0.120	1.90	1.85
CC453232A-2R2KL	2.20	±10 %	10	7.960	70.0	0.170	1.60	1.55
CC453232A-3R3KL	3.30	±10 %	10	7.960	35.0	0.210	1.50	1.25
CC453232A-4R7KL	4.70	±10 %	10	7.960	30.0	0.260	1.30	1.05
CC453232A-6R8KL	6.80	±10 %	10	7.960	25.0	0.320	1.20	0.90
CC453232A-100KL	10.00	±10 %	20	2.520	20.0	0.480	1.00	0.70
CC453232A-150KL	15.00	±10 %	20	2.520	14.0	0.610	0.75	0.60
CC453232A-220KL	22.00	±10 %	20	2.520	12.0	0.900	0.62	0.50
CC453232A-330KL	33.00	±10 %	20	2.520	10.0	1.150	0.55	0.40
CC453232A-470KL	47.00	±10 %	20	2.520	8.0	1.650	0.45	0.30
CC453232A-680KL	68.00	±10 %	20	2.520	7.0	2.500	0.35	0.26
CC453232A-101KL	100.00	±10 %	30	0.796	5.5	4.000	0.28	0.22
CC453232A-151KL	150.00	±10 %	30	0.796	4.5	6.000	0.22	0.19
CC453232A-221KL	220.00	±10 %	30	0.796	3.7	7.700	0.20	0.17
CC453232A-331KL	330.00	±10 %	30	0.796	3.1	11.000	0.17	0.14
CC453232A-471KL	470.00	±10 %	30	0.796	2.7	16.000	0.14	0.12
CC453232A-681KL	680.00	±10 %	30	0.796	2.2	24.000	0.12	0.10
CC453232A-102KL	1000.00	±10 %	20	0.252	2.0	40.000	0.09	0.08

Soldering Profile



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.

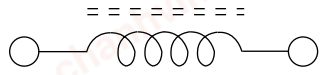
General Specifications

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

Materials

Core.....Ferrite
Wire .....Enameled Copper
Enclosure..... Epoxy resin
Terminal .....Sn
Packaging..... 500 pcs. per 7-inch reel

Schematic



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

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

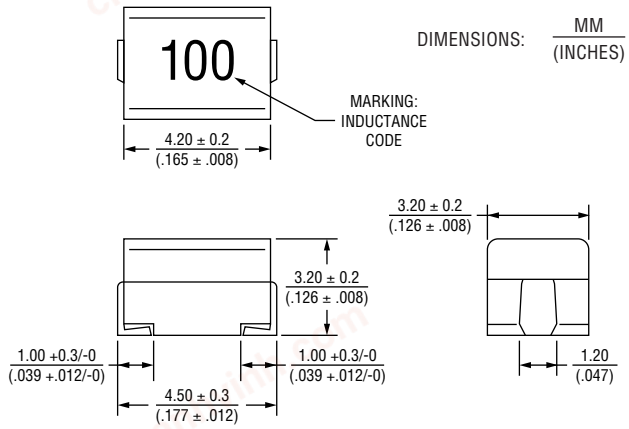
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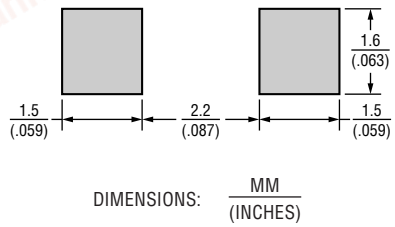
CC453232A Series - Chip Inductors

BOURNS®

Product Dimensions

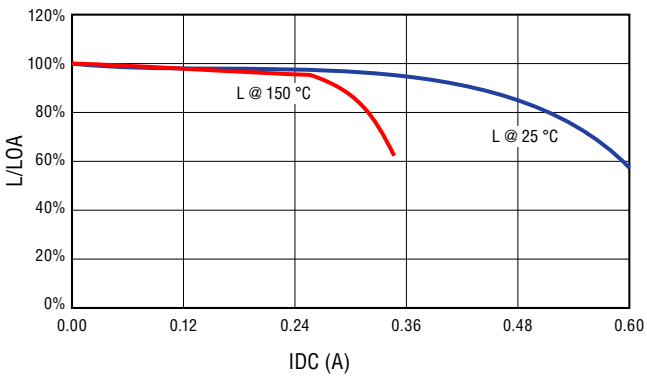


Recommended Layout

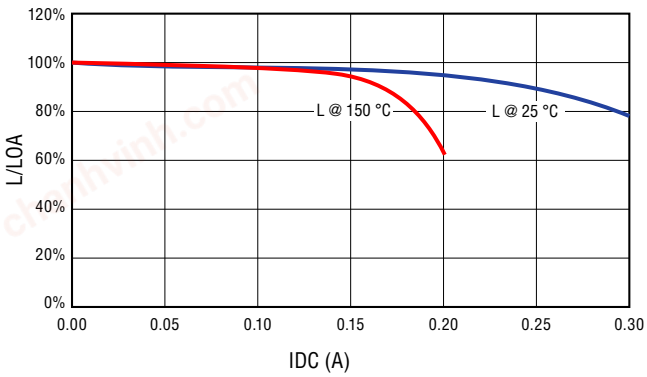


L vs. IDC

CC453232A-330KL

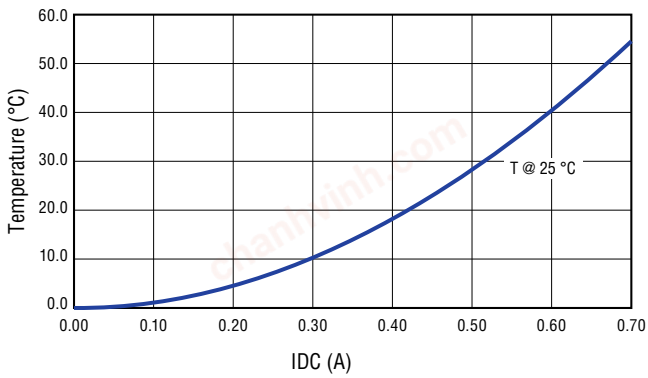


CC453232A-101KL

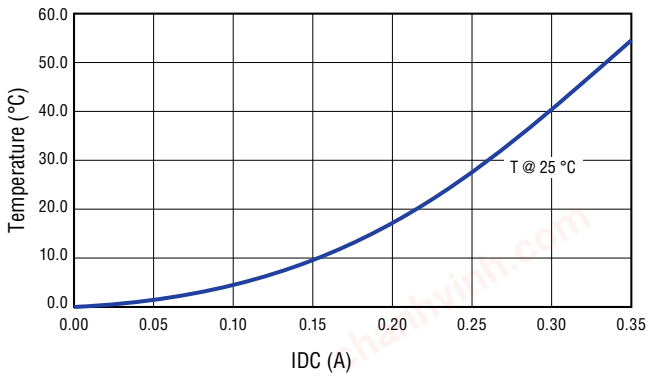


Temperature Rise vs. IDC

CC453232A-330KL



CC453232A-101KL

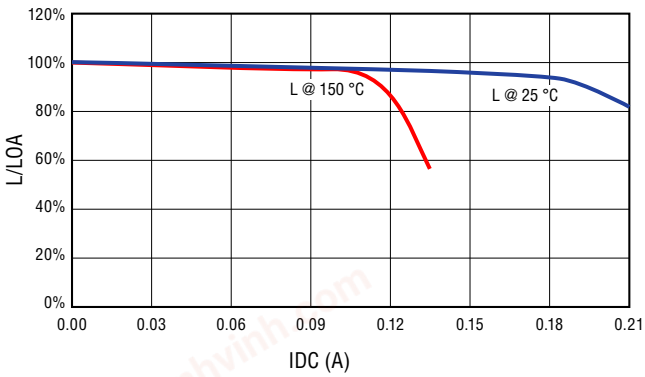


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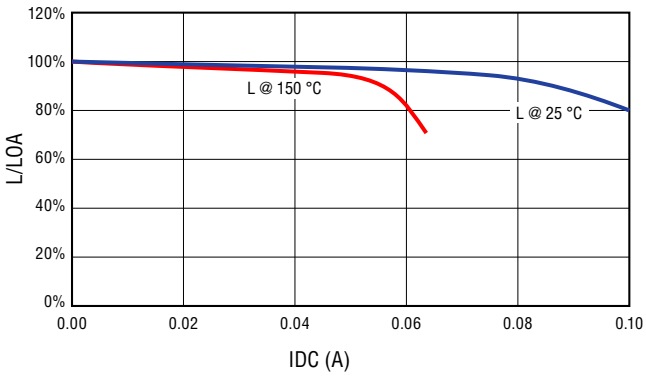
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L vs. IDC

CC453232A-221KL

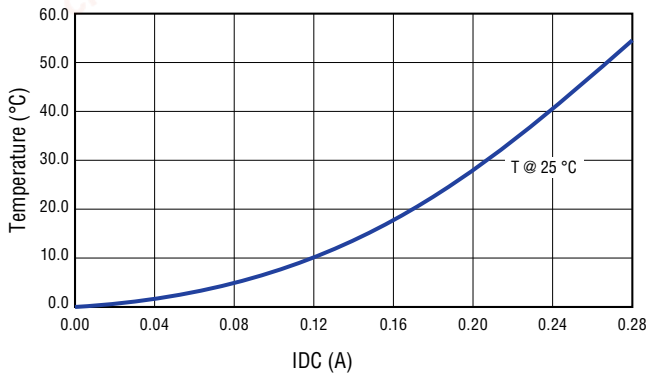


CC453232A-102KL

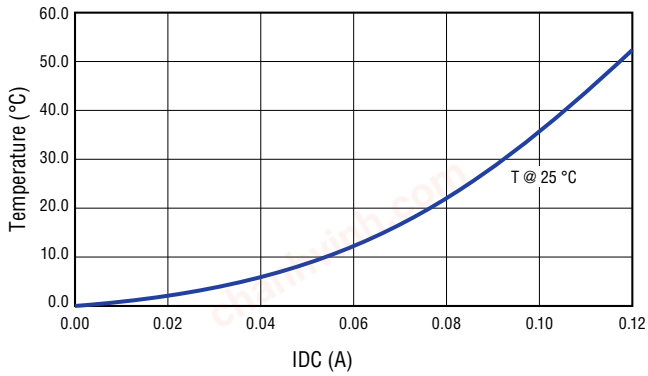


Temperature Rise vs. IDC

CC453232A-221KL



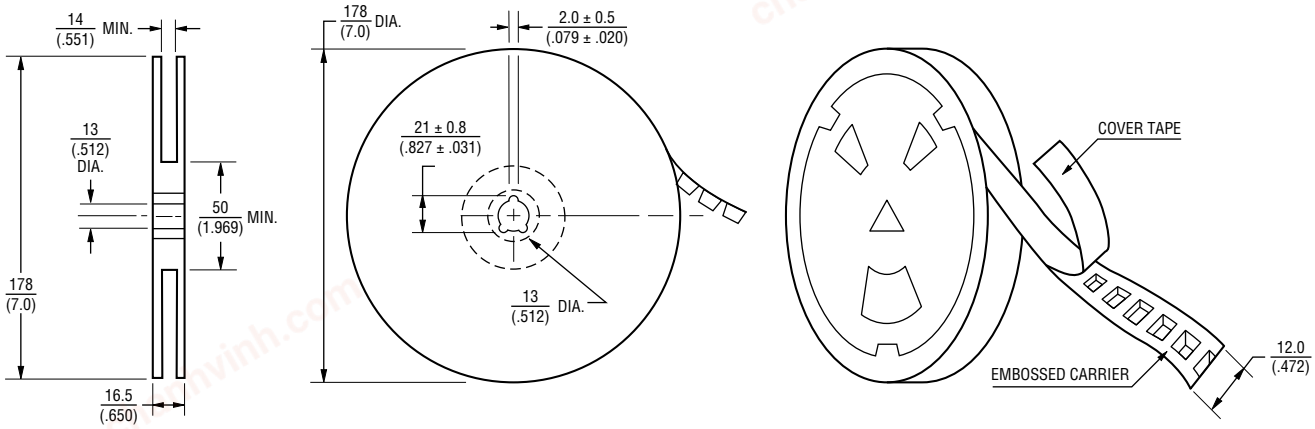
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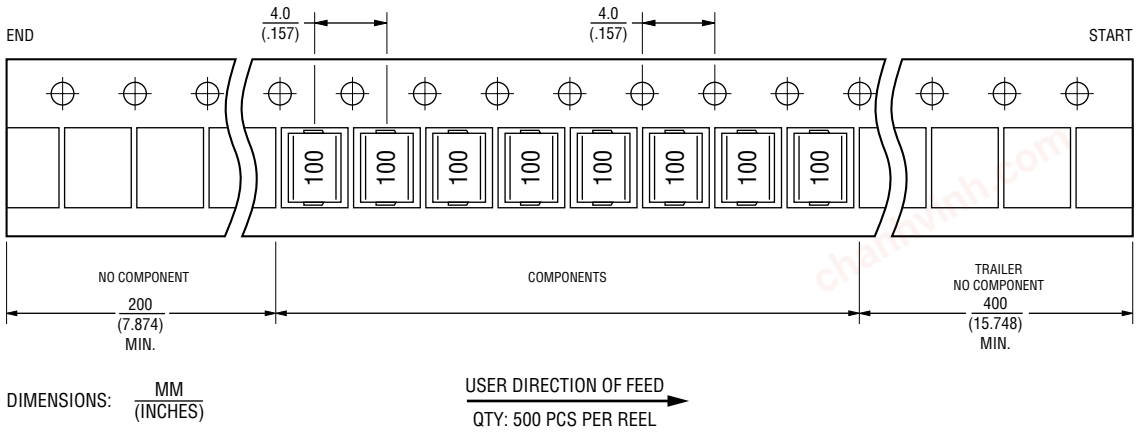


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Packaging Specifications





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07/20

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