



Features

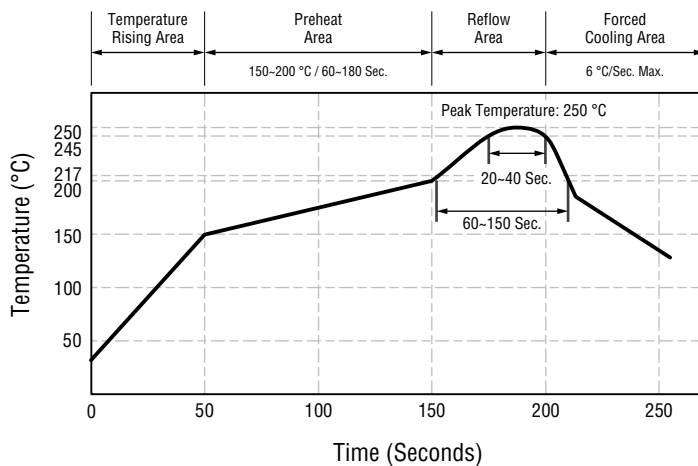
- High rated current
- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Tight dimension tolerances for automatic placement
- AEC-Q200 compliant
- RoHS compliant*

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.

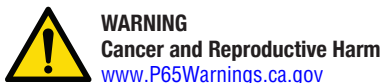
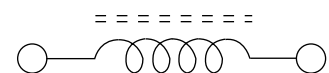
General Specifications

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

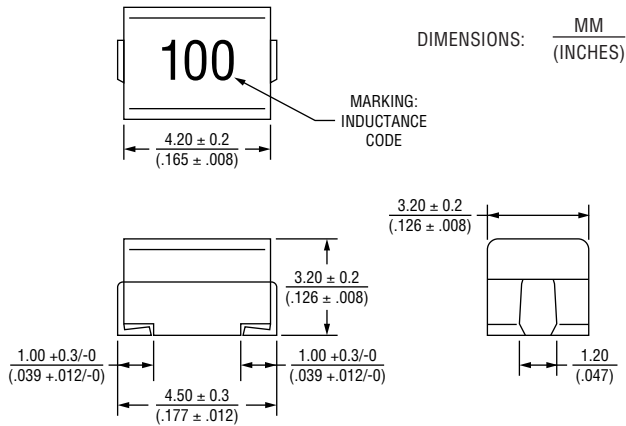


*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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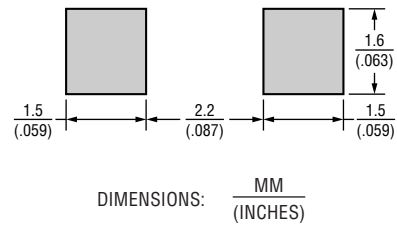
CC453232A Series - Chip Inductors



Product Dimensions

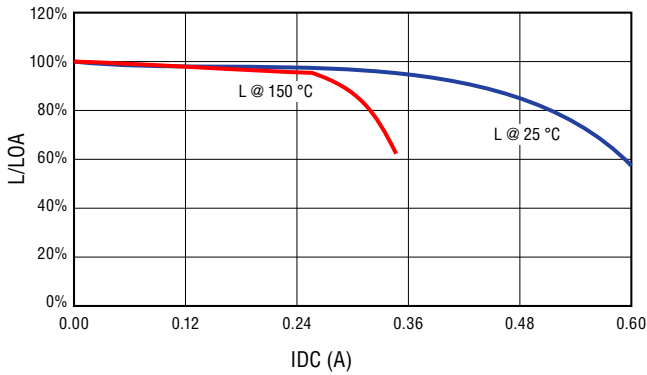


Recommended Layout

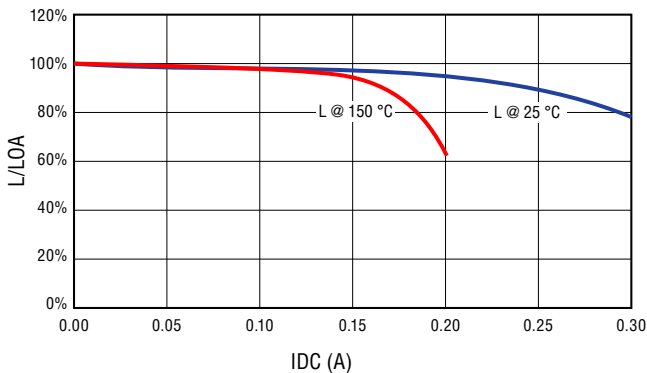


L vs. IDC

CC453232A-330KL

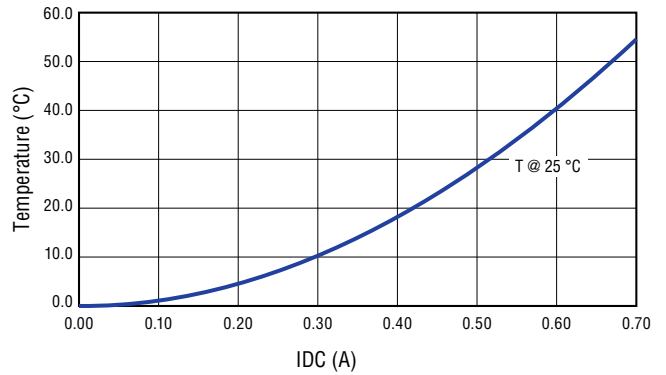


CC453232A-101KL

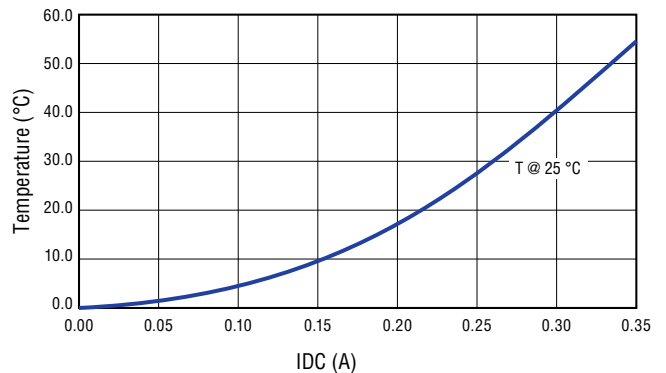


Temperature Rise vs. IDC

CC453232A-330KL



CC453232A-101KL



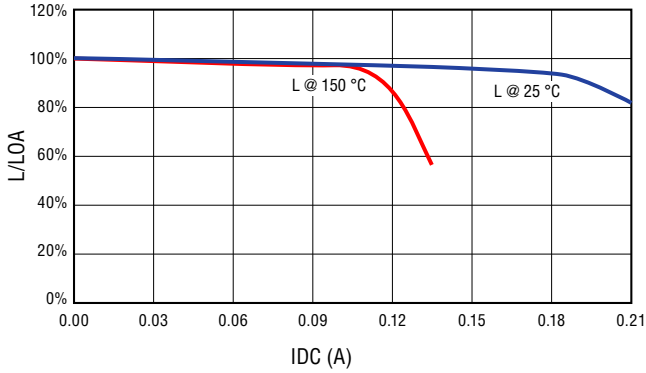
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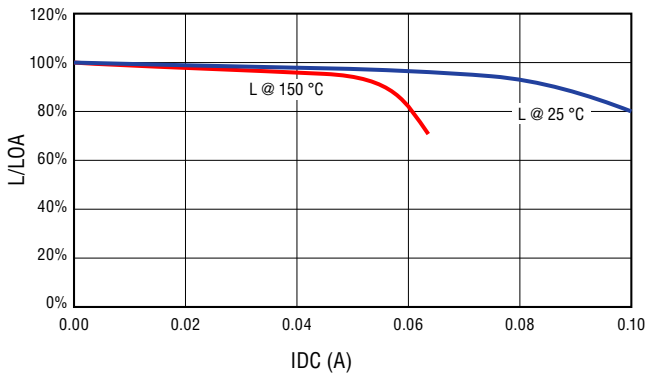
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L vs. IDC

CC453232A-221KL

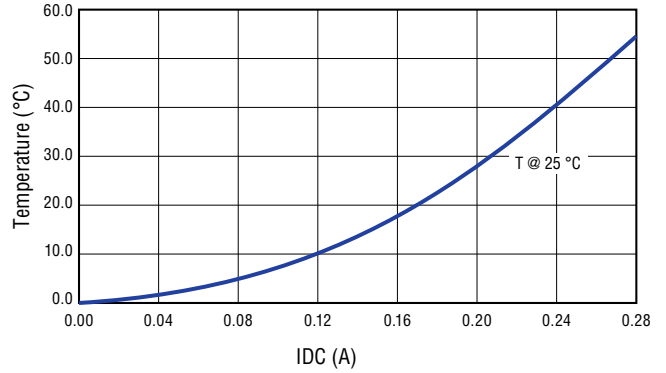


CC453232A-102KL

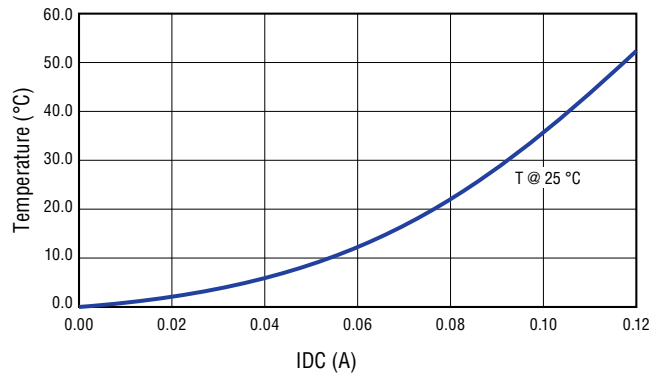


Temperature Rise vs. IDC

CC453232A-221KL



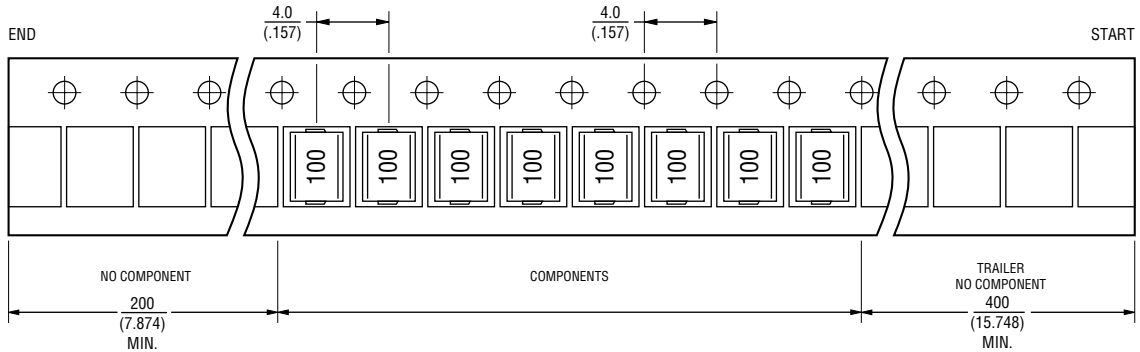
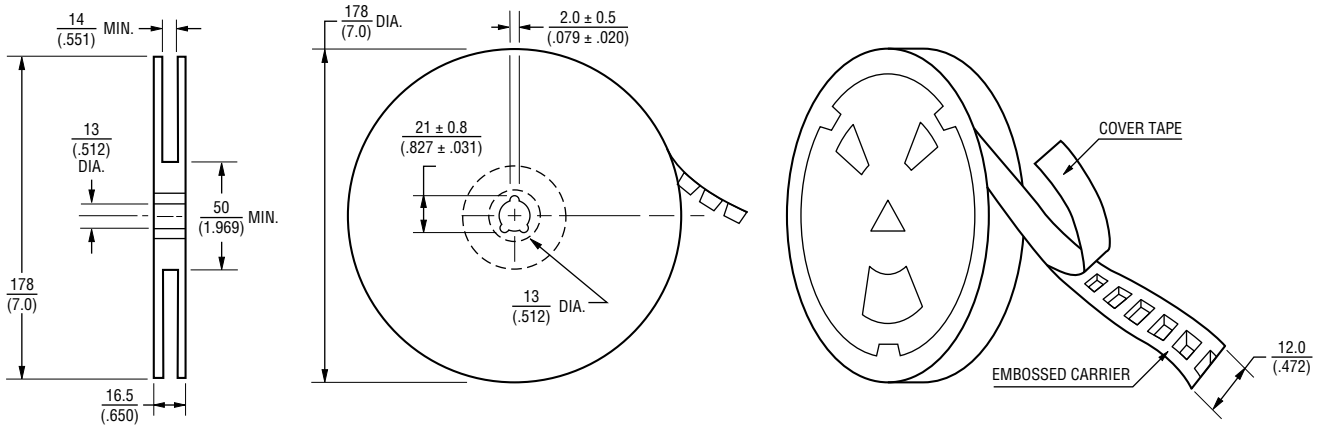
CC453232A-102KL



CC453232A Series - Chip Inductors



Packaging Specifications



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

USER DIRECTION OF FEED →
QTY: 500 PCS PER REEL



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