

Features

- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic surface mounting
- Inductance range: 0.12 to 150 µH
- RoHS compliant*

Applications

- Mobile phones
- Cellular phones
- CTV, VCR, HIC, FDD

CM322522 Series - Chip Inductor

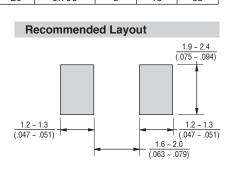
Electrical Specifications @25 °C

| Electrical Specifications @25 °C | | | | | | | | |
|----------------------------------|------------|-------------|-------------|------|--------------------|---------------|-------------|------|
| | Inductance | | | | | | | |
| | | Standard | Other | Q | Test | SRF | DCR | IDC |
| Bourns Part No. | μH | Tol. (%) | Tol. (%) | Min. | Frequency (MHz) | Min. (MHz) | Max. (Ω) | (mA) |
| CM322522-R12ML | 0.12 | ± 20 | N/A | 30 | 25.2 | 500 | 0.22 | 450 |
| CM322522-R15ML | 0.15 | ± 20 | N/A | 30 | 25.2 | 450 | 0.25 | 450 |
| CM322522-R18ML | 0.18 | ± 20 | N/A | 30 | 25.2 | 400 | 0.28 | 450 |
| CM322522-R22*L | 0.22 | ± 20 | ± 10 | 30 | 25.2 | 350 | 0.32 | 450 |
| CM322522-R27*L | 0.27 | ± 20 | ± 10 | 30 | 25.2 | 320 | 0.36 | 450 |
| CM322522-R33*L | 0.33 | ± 20 | ± 10 | 30 | 25.2 | 300 | 0.4 | 450 |
| CM322522-R39*L | 0.39 | ± 20 | ± 10 | 30 | 25.2 | 250 | 0.45 | 450 |
| CM322522-R47*L | 0.47 | ± 20 | ± 10 | 30 | 25.2 | 220 | 0.5 | 450 |
| CM322522-R56*L | 0.56 | ± 20 | ± 10 | 30 | 25.2 | 180 | 0.55 | 450 |
| CM322522-R68*L | 0.68 | ± 20 | ± 10 | 30 | 25.2 | 160 | 0.6 | 450 |
| CM322522-R82*L | 0.82 | ± 20 | ± 10 | 30 | 25.2 | 140 | 0.65 | 450 |
| CM322522-1R0*L | 1 | ± 10 | ± 5 | 30 | 7.96 | 120 | 0.7 | 400 |
| CM322522-1R2*L | 1.2 | ± 10 | ± 5 | 30 | 7.96 | 100 | 0.75 | 390 |
| CM322522-1R5*L | 1.5 | ± 10 | ± 5 | 30 | 7.96 | 85 | 0.85 | 370 |
| CM322522-1R8*L | 1.8 | ± 10 | ± 5 | 30 | 7.96 | 80 | 0.9 | 350 |
| CM322522-2R2*L | 2.2 | ± 10 | ± 5 | 30 | 7.96 | 75 | 1 | 320 |
| CM322522-2R7*L | 2.7 | ± 10 | ± 5 | 30 | 7.96 | 70 | 1.1 | 290 |
| CM322522-3R3*L | 3.3 | ± 10 | ± 5 | 30 | 7.96 | 60 | 1.2 | 260 |
| CM322522-3R9*L | 3.9 | ± 10 | ± 5 | 30 | 7.96 | 55 | 1.3 | 250 |
| CM322522-4R7*L | 4.7 | ± 10 | ± 5 | 30 | 7.96 | 50 | 1.5 | 220 |
| CM322522-5R6*L | 5.6 | ± 10 | ± 5 | 30 | 7.96 | 45 | 1.6 | 200 |
| CM322522-6R8*L | 6.8 | ± 10 | ± 5 | 30 | 7.96 | 40 | 1.8 | 180 |
| CM322522-8R2*L | 8.2 | ± 10 | ± 5 | 30 | 7.96 | 35 | 2 | 170 |
| CM322522-100*L | 10 | ± 10 | ± 5 | 30 | 2.52 | 30 | 2.1 | 150 |
| CM322522-120*L | 12 | ± 10 | ± 5 | 30 | 2.52 | 20 | 2.5 | 140 |
| CM322522-150*L | 15 | ± 10 | ± 5 | 30 | 2.52 | 20 | 2.8 | 130 |
| CM322522-180*L | 18 | ± 10 | ± 5 | 30 | 2.52 | 20 | 3.3 | 120 |
| CM322522-220*L | 22 | ± 10 | ± 5 | 30 | 2.52 | 20 | 3.7 | 110 |
| CM322522-270*L | 27 | ± 10 | ± 5 | 30 | 2.52 | 20 | 5 | 80 |
| CM322522-330*L | 33 | ± 10 | ± 5 | 30 | 2.52 | 17 | 5.6 | 70 |
| CM322522-390*L | 39 | ± 10 | ± 5 | 30 | 2.52 | 16 | 6.4 | 65 |
| CM322522-470*L | 47 | ± 10 | ± 5 | 30 | 2.52 | 15 | 7 | 60 |
| CM322522-560*L | 56 | ± 10 | ± 5 | 30 | 2.52 | 13 | 8 | 55 |
| CM322522-680*L | 68 | ± 10 | ± 5 | 30 | 2.52 | 12 | 9 | 50 |
| CM322522-820*L | 82 | ± 10 | ± 5 | 30 | 2.52 | 11 | 10 | 45 |
| CM322522-101*L | 100 | ± 10 | ± 5 | 20 | 0.796 | 10 | 11 | 40 |
| CM322522-121*L | 120 | ± 10 | ± 5 | 20 | 0.796 | 10 | 11 | 70 |
| CM322522-151*L | 150 | ± 10 | ± 5 | 20 | 0.796 | 8 | 15 | 65 |

^{*} Enter Standard or Other Tolerance Code: M = ±20 %, K = ±10 %, J = ±5 %

*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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Additional Information

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PRODUCT SELECTOR

TECHNICAL I

INVENTORY

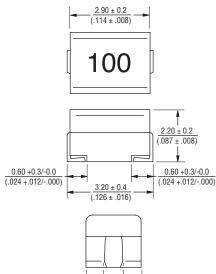
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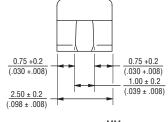
CONTACT

General Specifications

| Materials | |
|-----------------|----------------------|
| Core | Ferrite |
| | Enamelled copper |
| Enclosure | Epoxy resin |
| Terminal Finish | Sn |
| Packaging 2,000 | pcs. per 7-inch reel |

Product Dimensions





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

CM322522 Series - Chip Inductor

250

Schematic



Soldering Profile Temperature Rising Area Forced Cooling Area Reflow Area Preheat Area 150~200 °C / 60~180 Sec. 6 °C/Sec. Max. Peak Temperature: 250 °C 250 245 217 200 Temperature (°C) 20~40 Se 150 60~150 Sec. 100

Time (Seconds)

Peak Temperature: 250 °C max.

50

50

0

Max. Time Above 217 °C: 60~150 sec. max.

150

Max. Time Above 245 °C: 20~40 sec. max.

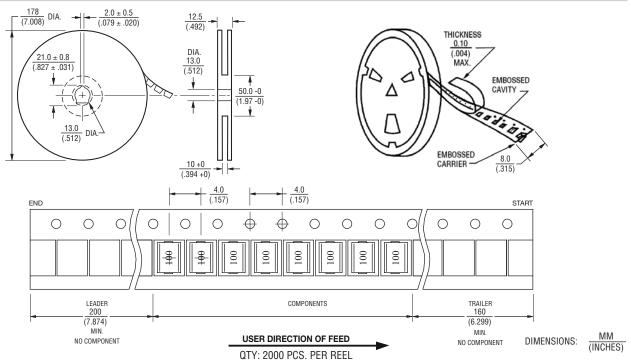
200 °C ~ 250 °C Average Ramp-up Rate:

200

3 °C / sec. max.

100

Packaging Specifications



REV. 11/21

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