

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

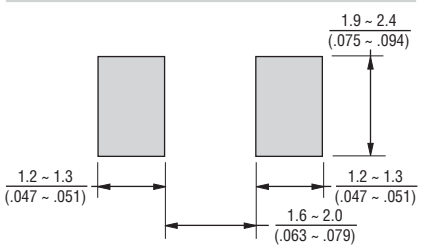
CM322522 Series - Chip Inductor

Electrical Specifications @25 °C

Bourns Part No.	Inductance µH	Inductance Standard Tol. (%)	Inductance Other Tol. (%)	Q Min.	Test Frequency (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (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 %

Recommended Layout



Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

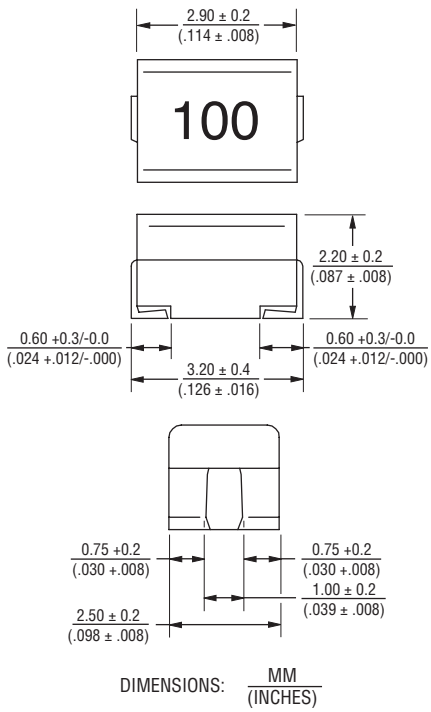
General Specifications

Operating Temperature
.....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
.....-40 °C to +125 °C
Resistance to Soldering Heat
..... 245 °C, 5 seconds
Temperature Rise .....20 °C
Rated Current.... Inductance drops 10 %
Moisture Sensitivity Level.....1
ESD Classification (HBM)..... N/A

Materials

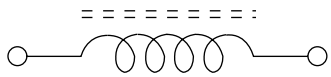
Core.....Ferrite
Wire ..... Enamelled copper
Enclosure..... Epoxy resin
Terminal Finish .....Sn
Packaging..... 2,000 pcs. per 7-inch reel

Product Dimensions

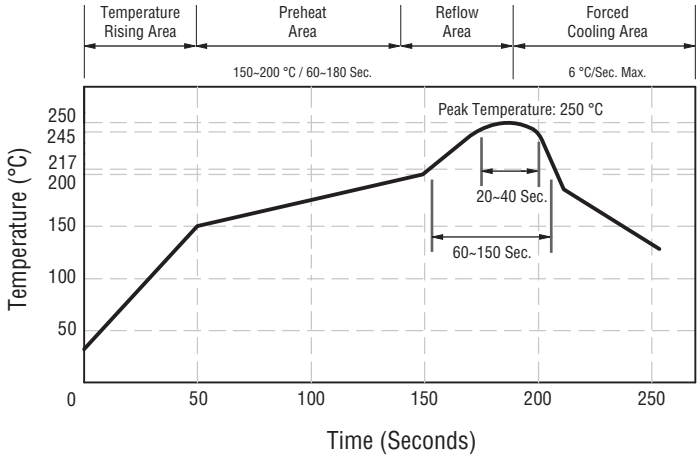


*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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Users should verify actual device performance in their specific applications.
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Schematic



Soldering Profile



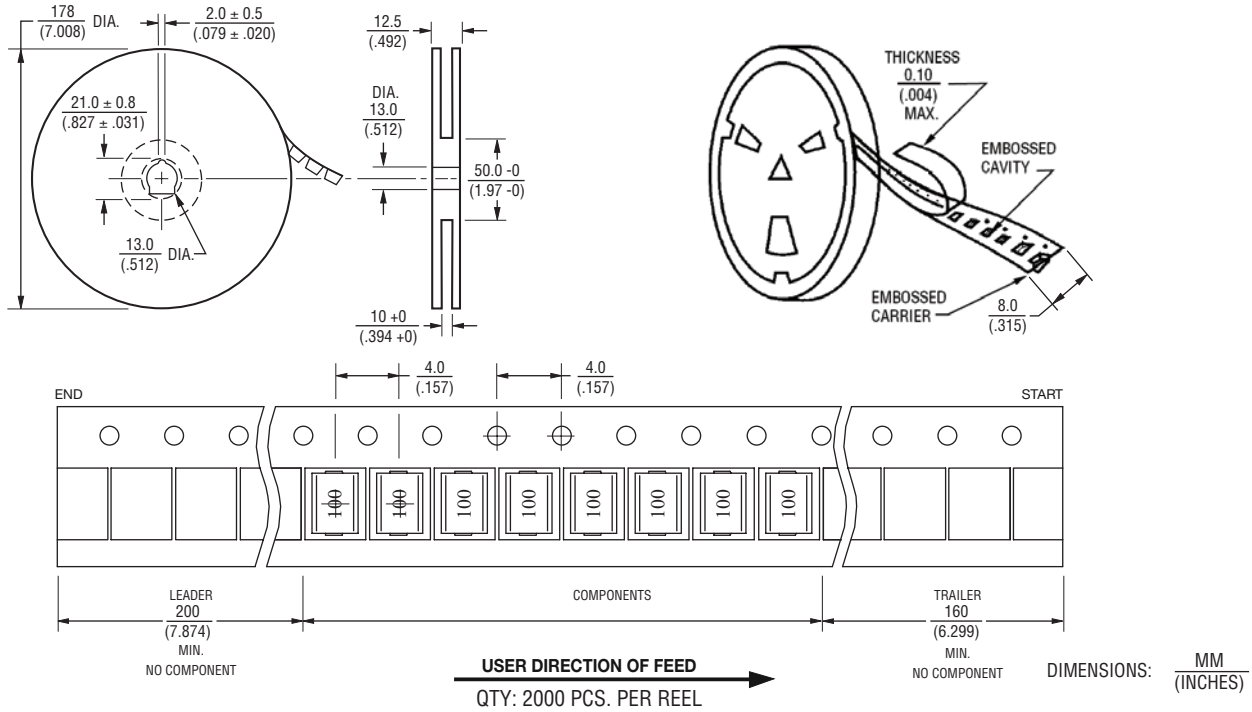
Peak Temperature:
250 °C max.

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.

Packaging Specifications



REV. 11/21

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