

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

CM322522 Series - Chip Inductor

RoHS compliant*

Applications

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

Electrical Specifications @25 °C

	Inductance							
Bourns Part No.	μH	Standard Tol. (%)	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

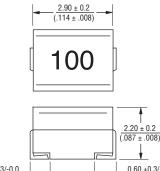
General Specifications

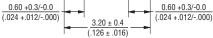
Operating Temperature
-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
40 °C to +125 °C
Resistance to Soldering Heat
Temperature Rise
Rated Current Inductance drops 10 %
Moisture Sensitivity Level3
ESD Classification (HBM)N/A

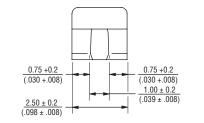
Materials

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

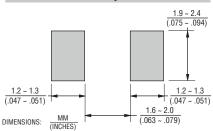
Product Dimensions







Recommended Layout



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



*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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

Schematic

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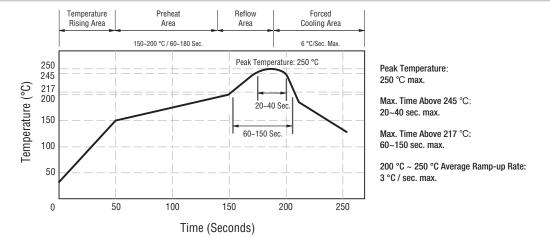
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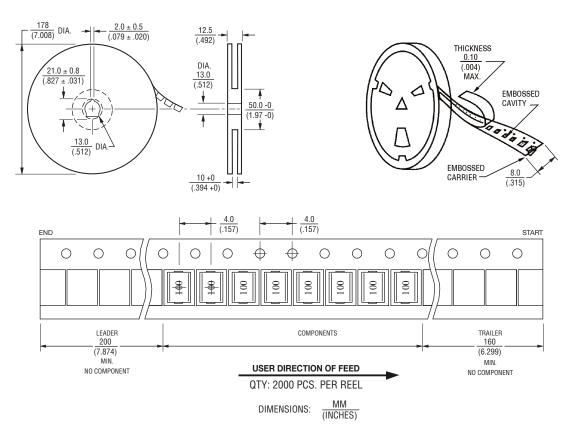
CM322522 Series - Chip Inductor

BOURNS

Soldering Profile



Packaging Specifications



REV. 08/17

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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