

## **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

	Inductance							
Bourns		Standard Tol.	Other Tol.	Q Min.	Test Frequency	SRF Min.	DCR Max.	IDC
Part No.	μH	(%)	(%)		(MHz)	(MHz)	(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
CM322522-820 L	100	± 10	±5	20	0.796	10	11	40
CM322522-101 L	120	± 10	±5	20	0.796	10	11	70
CM322522-121*L	150	± 10	±5 ±5	20	0.796	8	15	65
CIVI322522-151^L	150	± 10	± 5	20	0.796	ď	15	65

<sup>\*</sup> Enter Standard or Other Tolerance Code: M = ±20 %, K = ±10 %, J = ±5 %

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## WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

**Schematic** 

## **General Specifications**

Operating Temperature .....-40 °C to +125 °C

.....-40 °C to +125 °C (Temperature rise included)

Storage Temperature

-40 °C to +125 °C

Resistance to Soldering Heat

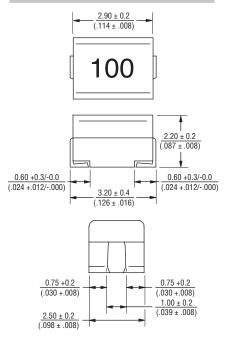
......245 °C, 5 seconds Temperature Rise ......20 °C Rated Current .... Inductance drops 10 % Moisture Sensitivity Level ......3

ESD Classification (HBM)......N/A

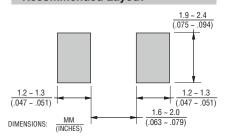
#### **Materials**

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

## **Product Dimensions**



#### **Recommended Layout**

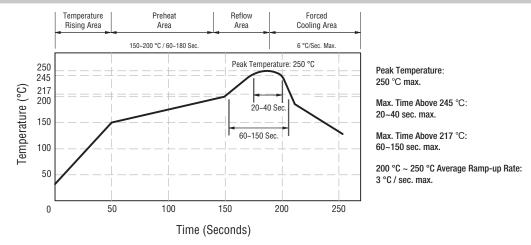


<sup>\*</sup>RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <a href="https://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>

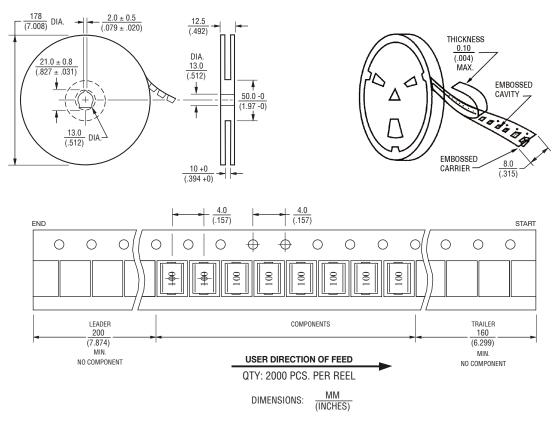
# CM322522 Series - Chip Inductor

# BOURNS

#### **Soldering Profile**



## **Packaging Specifications**



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## **Bourns:**

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CM322522-2R2K CM322522-47NML CM322522-68NML CM322522-82NML CM322522-R12ML CM322522-R33ML
 CM322522-R39ML CM322522-R68ML CM322522-221KL CM322522-2R2KL CM322522-R39KL CM322522-
1R2ML CM322522-3R3KL CM322522-R22ML CM322522-R68KL CM322522-220KL CM322522-R22KL CM322522-
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