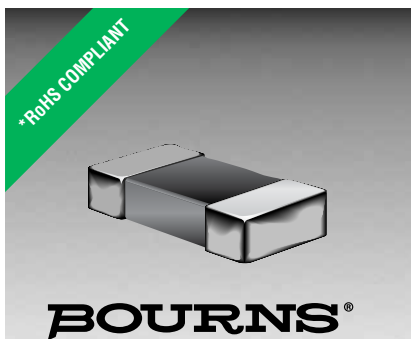




Features

- Monolithic construction offering high reliability
- Magnetically shielded construction providing low radiation
- Low DC resistance
- Low profile, 1008 size (2.5 x 2 x 0.9 mm)
- RoHS compliant*

Applications

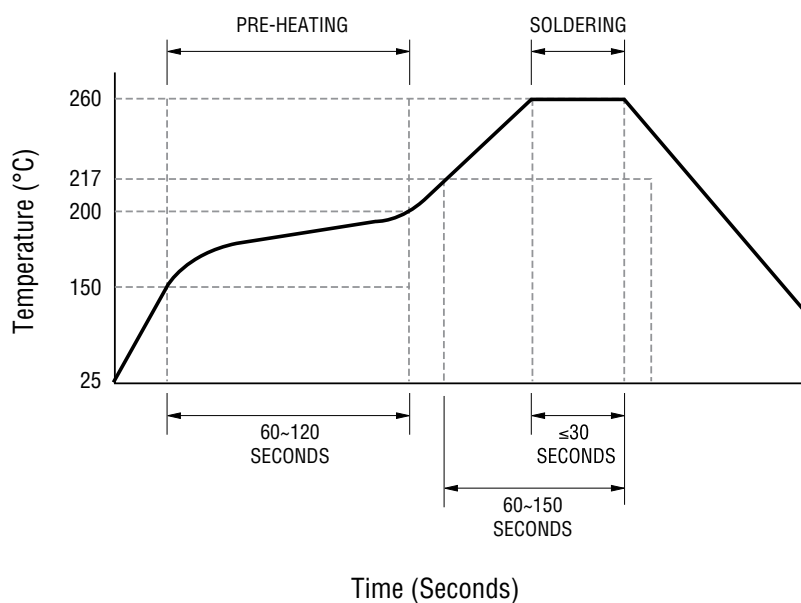
- DC/DC converters for:
 - Smart phones
 - DVCs / DSCs
 - Tablets
 - HDDs / SSDs
 - Mobile electronic devices

CVH252009 Series Multilayer Power Chip Inductors

Electrical Specifications

Bourns® Part No.	Inductance @ 1 MHz		SRF (MHz)	DCR (Ohms)	IDC (mA)
	L (μH)	Tol.	Typ.	Max.	
CVH252009-R47M	0.47	±20 %	100	0.04	1800
CVH252009-1R0M	1.0	±20 %	60	0.055	1600
CVH252009-1R5M	1.5	±20 %	50	0.07	1500
CVH252009-2R2M	2.2	±20 %	40	0.08	1300
CVH252009-3R3M	3.3	±20 %	30	0.10	1200
CVH252009-4R7M	4.7	±20 %	25	0.11	1100

Soldering Profile (Lead Free Solder)



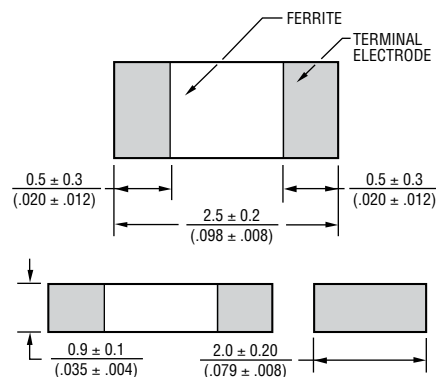
General Specifications

Operating Temperature
-55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature
+40 °C max. at 70 % RH
 Resistance to Soldering Heat
+260 °C
 Temperature Rise
 40 °C at rated current

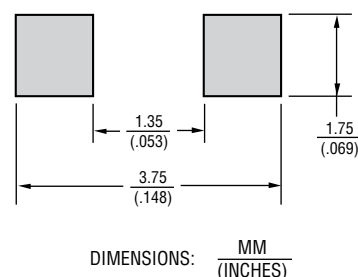
Materials

Core.....Ferrite
 Terminal.....Ni/Sn
 Packaging..... 3000 pcs. per 7 inch reel

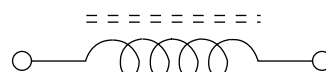
Product Dimensions



Recommended Layout



Schematic



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116
 EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211
 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
www.bourns.com

*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.

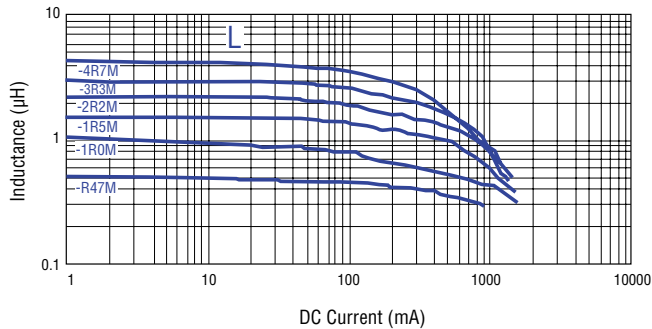
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

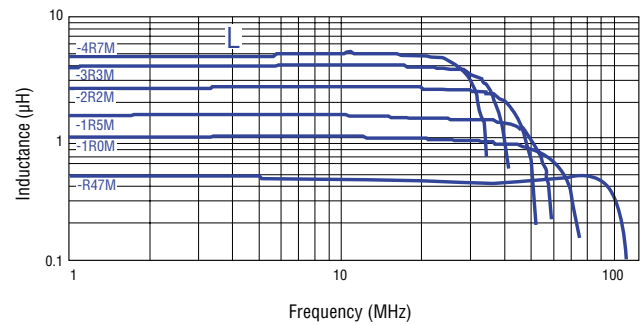
CVH252009 Series Multilayer Power Chip Inductors

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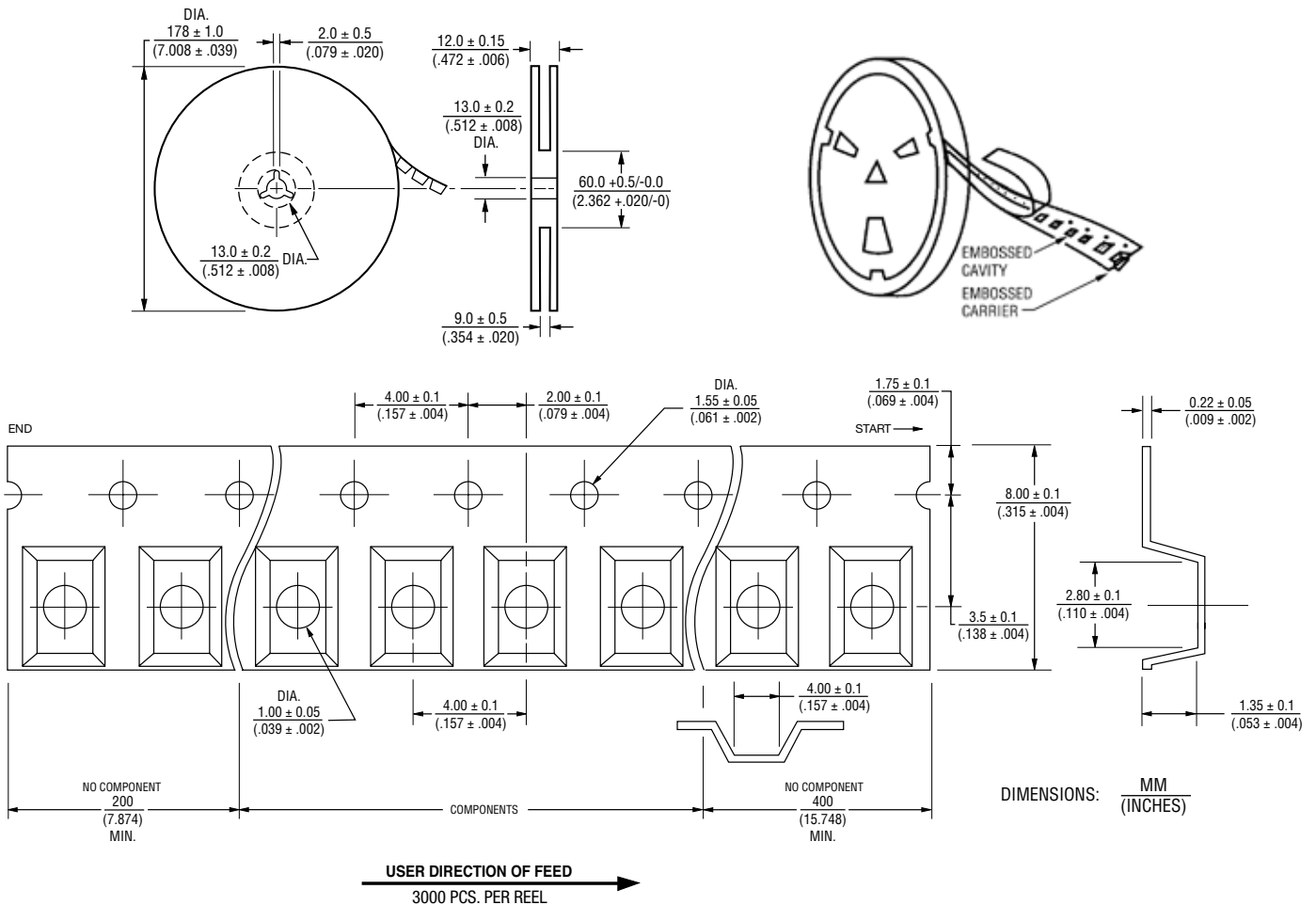
L vs. Idc



L vs. Frequency



Packaging Specifications



REV. 04/16

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

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Bourns:

[CVH252009-R47M](#) [CVH252009-1R0M](#) [CVH252009-1R5M](#) [CVH252009-2R2M](#) [CVH252009-3R3M](#) [CVH252009-4R7M](#)