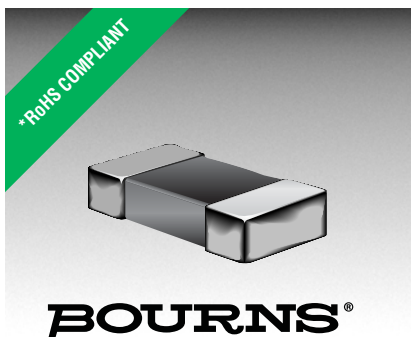




## Features

- 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

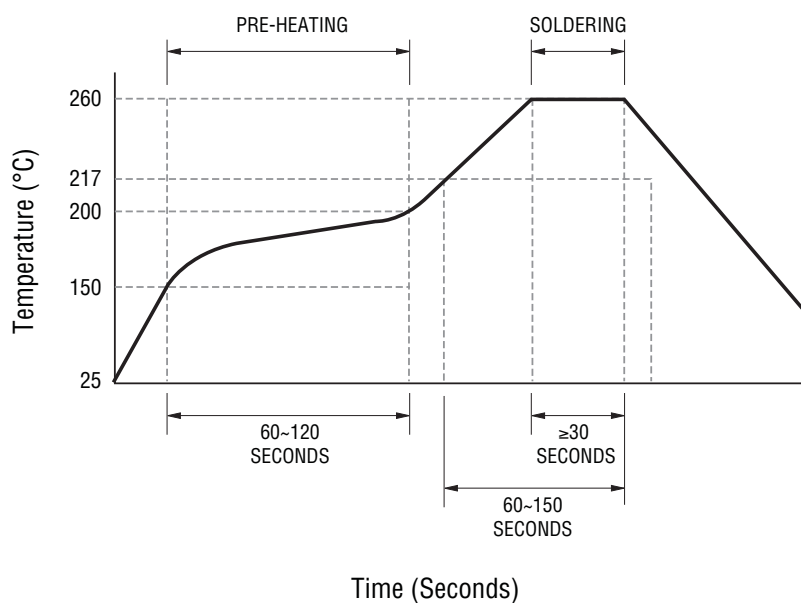
- DC/DC converters for:
  - Smart phones
  - DVCs / DSCs
  - Tablets
  - HDDs / SSDs
  - Mobile electronic devices

# 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

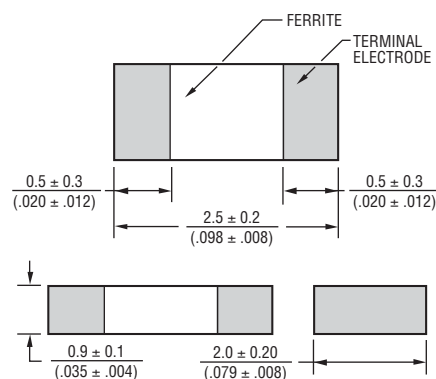
## Materials

Core.....Ferrite

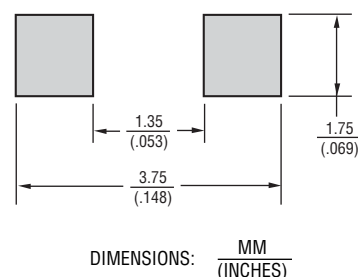
Terminal.....Ni/Sn

Packaging..... 3000 pcs. per 7 inch reel

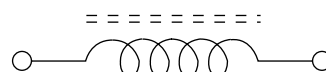
## Product Dimensions



## Recommended Layout



## Schematic



**BOURNS®**

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Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510

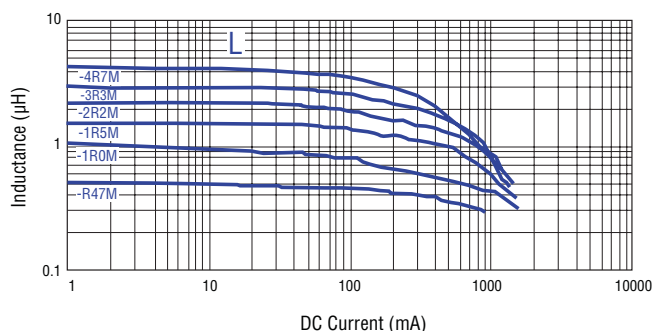
The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

[www.bourns.com](http://www.bourns.com)

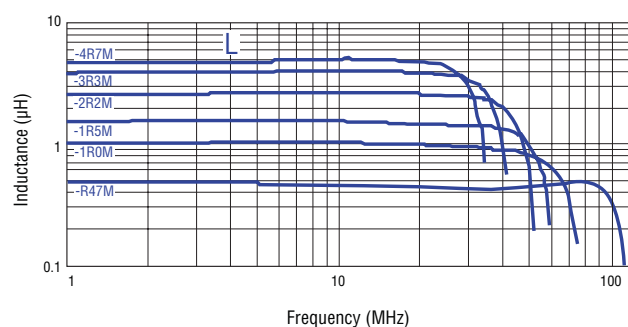
# CVH252009 Series Multilayer Power Chip Inductors

**BOURNS®**

**L vs. Idc**



**L vs. Frequency**



## Packaging Specifications

