



### Features

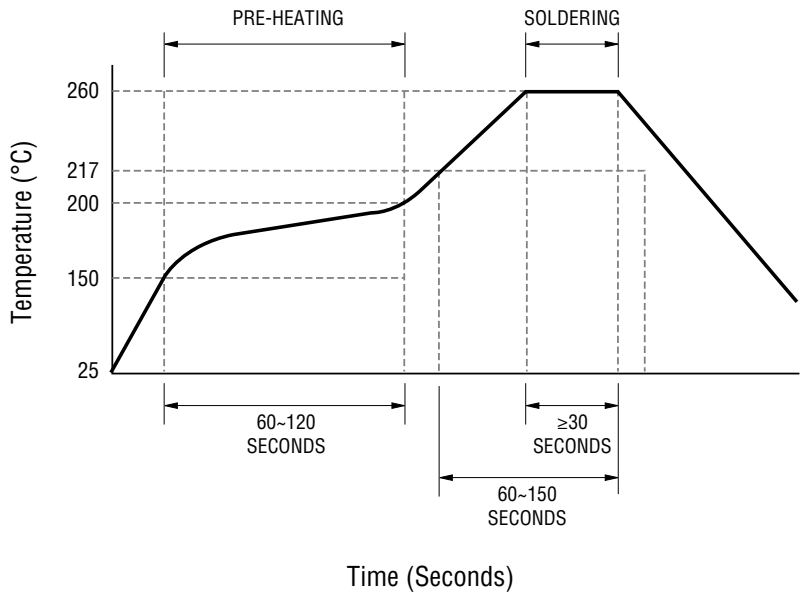
- Monolithic construction offering high reliability
- Magnetically shielded construction providing low radiation
- Low DC resistance
- Low profile
- AEC-Q200 compliant
- RoHS compliant\*

## CVH201610A Series – Multilayer Power Chip Inductors

### Electrical Specifications @ 25°C

| Bourns Part No. | Inductance @ 1 MHz / 0.1 V |       | SRF (MHz) | DCR (Ohms) | IDC (mA) |
|-----------------|----------------------------|-------|-----------|------------|----------|
|                 | L (μH)                     | Tol.  | Typ.      | ±25 %      | Typ.     |
| CVH201610A-R47M | 0.47                       | ±20 % | 80        | 0.060      | 1600     |
| CVH201610A-1R0M | 1.00                       | ±20 % | 70        | 0.085      | 1400     |
| CVH201610A-2R2M | 2.20                       | ±20 % | 50        | 0.110      | 1200     |

### Soldering Profile (Lead Free Solder)



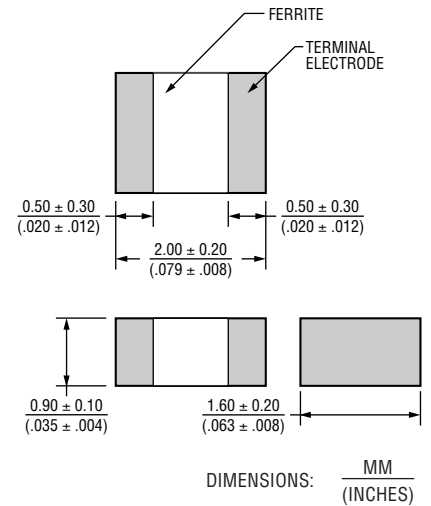
### General Specifications

Operating Temperature .....-55 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature...-55 °C to +125 °C  
 Temperature Rise ..... 20 °C at rated current  
 Moisture Sensitivity Level..... 1  
 ESD Classification (HBM)..... N/A

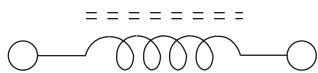
### Materials

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

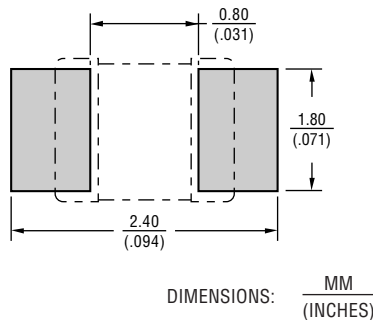
### Product Dimensions



### Schematic



### Recommended Layout



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

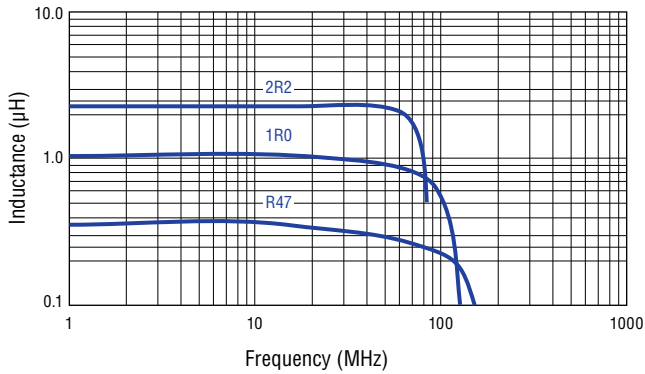
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

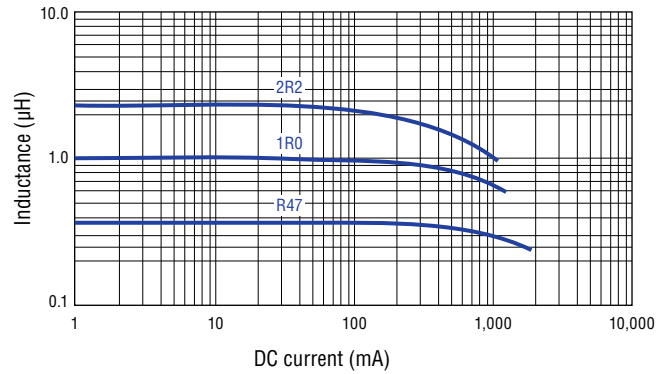
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# CVH201210A Series – Multilayer Power Chip Inductors **BOURNS®**

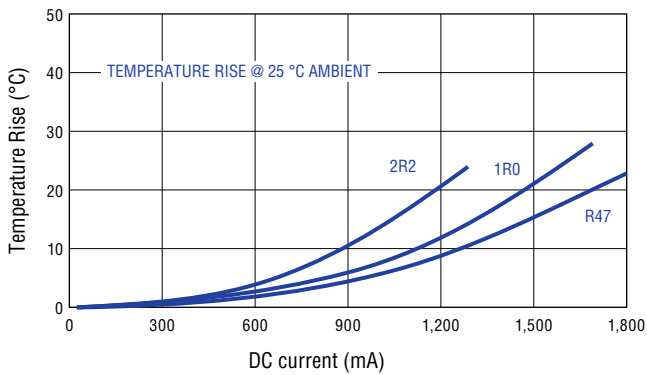
**L vs. Frequency**



**L vs. IDC**



**Temperature Rise vs. IDC**



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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А