



## Features

- Bifilar or sector windings
- Wide frequency range over 1000 MHz
- Rated current 0.2 to 0.5 A
- Open construction is more economical than DR332 Series
- RoHS compliant\*

## Applications

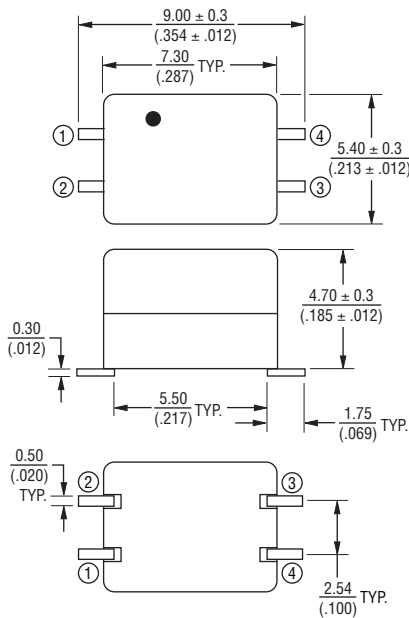
- For the suppression of EMI in data and signal lines

# DR331 Series Surface Mount Data Line Chokes

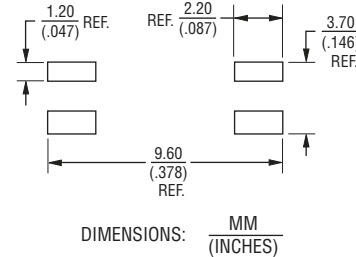
### Electrical Specifications @ 25 °C

| Bourns® Part No. | L (1-4) @ 100 kHz, 0.1 Vrms (μH) | LL (1-4) @ 100 kHz, 0.1 Vrms (Typ.) (2-3 Short) | RDC (W) (Winding) Max. | Rated Current Max. | Winding |
|------------------|----------------------------------|---|------------------------|--------------------|---------|
| DR331-113BE      | 11.0 ± 25 %                      | 0.05 μH   | 0.12                   | 0.5 A              | Bifilar |
| DR331-253AE      | 25.0 ± 25 %                      | 1.50 μH   | 0.20                   | 0.5 A              | Sector  |
| DR331-513AE      | 51.0 ± 25 %                      | 2.00 μH   | 0.30                   | 0.5 A              | Sector  |
| DR331-513BE      | 51.0 ± 25 %                      | 0.60 μH   | 0.30                   | 0.5 A              | Bifilar |
| DR331-104AE      | 100.0 ± 25 %                     | 0.85 μH   | 0.10                   | 0.5 A              | Sector  |
| DR331-474BE      | 470.0 ± 25 %                     | 0.28 μH   | 0.28                   | 0.5 A              | Bifilar |
| DR331-105BE      | 1000.0 ± 25 %                    | 0.29 μH   | 0.40                   | 0.5 A              | Bifilar |
| DR331-225BE      | 2200.0 ± 25 %                    | 0.30 μH   | 0.70                   | 0.3 A              | Bifilar |
| DR331-475BE      | 4700.0 ± 25 %                    | 0.30 μH   | 0.70                   | 0.2 A              | Bifilar |

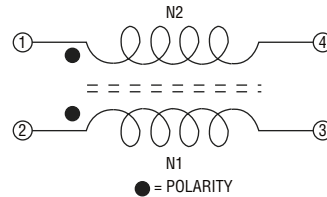
### Product Dimensions



### Recommended Layout



### Schematic

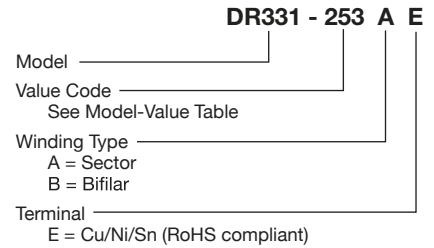


Rated Voltage ..... 80 Vdc/42 Vac  
 Hipot (1 sec.) ..... 250 Vac/60 Hz, 3 mA  
 Operating Temperature ..... -40 °C to +135 °C  
 Storage Temperature ..... -55 °C to +135 °C  
 Temperature Rise ..... .30 °C max. at rated current  
 Resistance to Solder Heat ..... +260 °C, 10 sec.  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

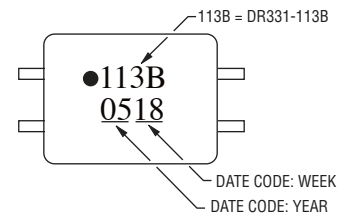
### Materials

Core ..... Ferrite  
 Wire .... Enameled copper wire (Class F)  
 Base ..... Phenolic (UL 94V-0)  
 Terminal ..... Cu/Ni/Sn  
 Adhesive ..... Epoxy resin  
 Packaging ..... 1500 pcs. per 13 inch reel

### How to Order



### Typical Part Marking



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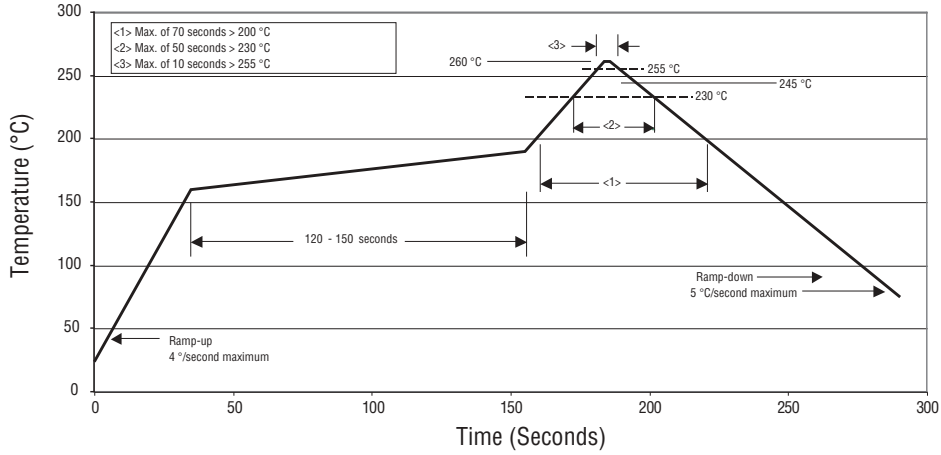
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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](http://www.bourns.com/docs/legal/disclaimer.pdf).

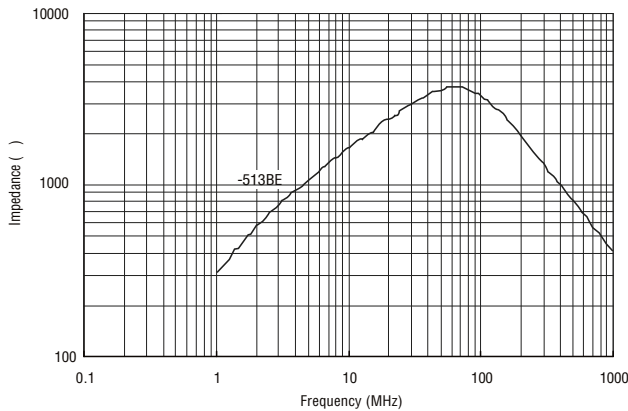
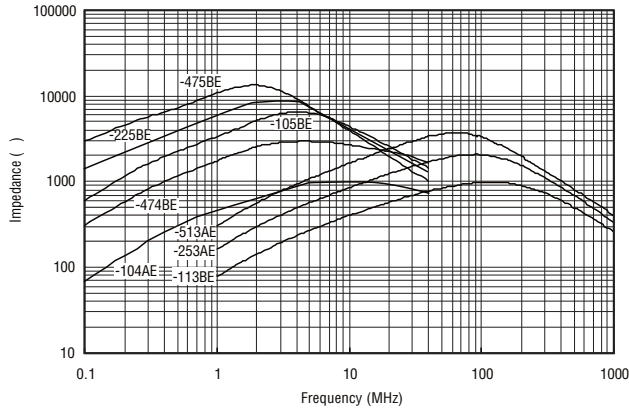
# DR331 Series Surface Mount Data Line Chokes

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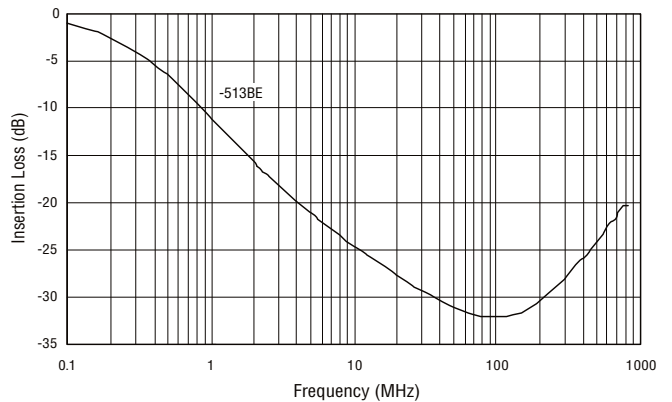
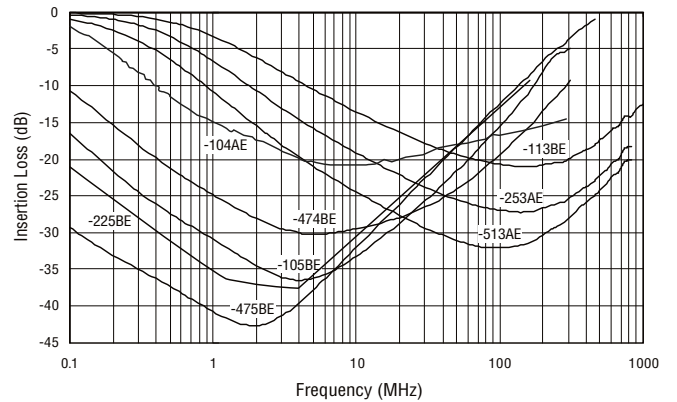
## Solder Profile



## Impedance vs. Frequency



## Insertion Loss vs. Frequency



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Users should verify actual device performance in their specific applications.

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