



## Features

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

## Applications

- For the suppression of EMI in data and signal lines, e.g. CAN Bus

# DR331 Series Surface Mount Data Line Chokes

## Electrical Characteristics (@ 25 °C)

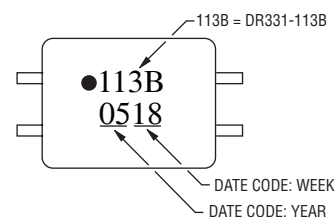
| Bourns Part Number | L (1-4) @ 100 kHz, 0.1 Vrms (μH) | LL (1-4) @ 100 kHz, 0.1 Vrms (Typ.) (2-3 Short) | RDC (Ω) (Winding) Max. | Rated Current Max. | Winding |
|--------------------|----------------------------------|-------------------------------------------------|------------------------|--------------------|---------|
| 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 |

Rated Voltage .....80 Vdc/42 Vac  
 Hipot (1 sec.).....250 Vac/60 Hz, 3 mA  
 \*Operating Temperature ..-40 to +135 °C  
 \*Storage Temperature .....-40 to +135 °C  
 Temperature Rise  
 .....30 °C max. at rated current  
 Resistance to Solder Heat  
 .....260 °C 10 sec.  
 Core .....Ferrite  
 Wire .....Enameled copper wire (Class F)  
 Base .....Phenolic (UL 94V-0)  
 Terminal .....Cu/Ni/Sn  
 Adhesive.....Epoxy resin  
 Packaging .....1500 pcs. per reel

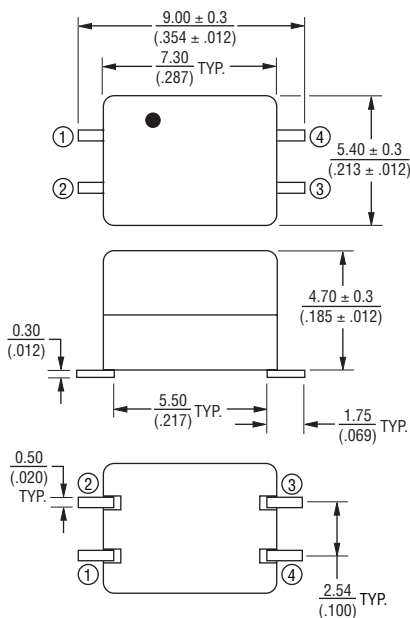
## How to Order

Model **DR331 - 253 A E**  
 Value Code .....  
 See Model-Value Table  
 Winding Type .....  
 A = Sector  
 B = Bifilar  
 Terminal .....  
 E = Cu/Ni/Sn (RoHS compliant)

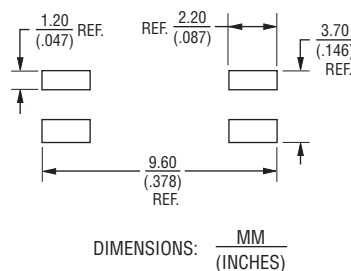
## Typical Part Marking



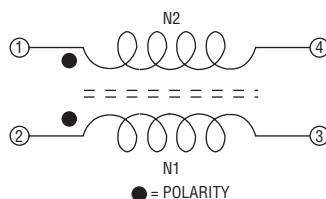
## Product Dimensions



## Recommended PCB Layout



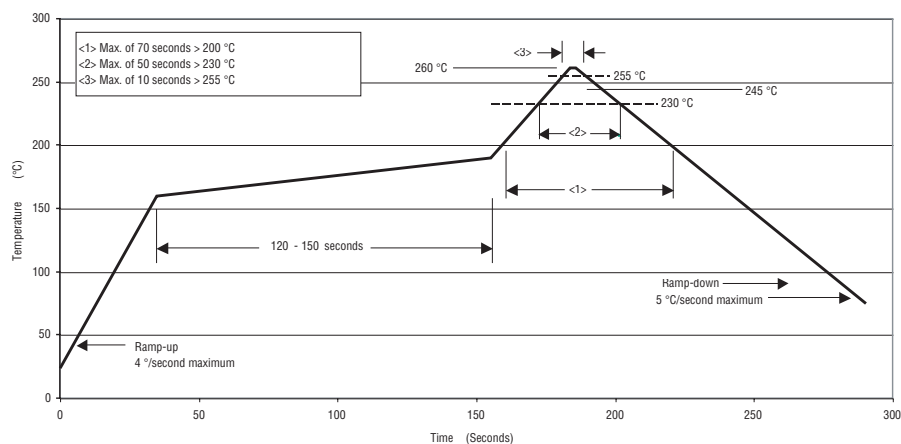
## Schematic



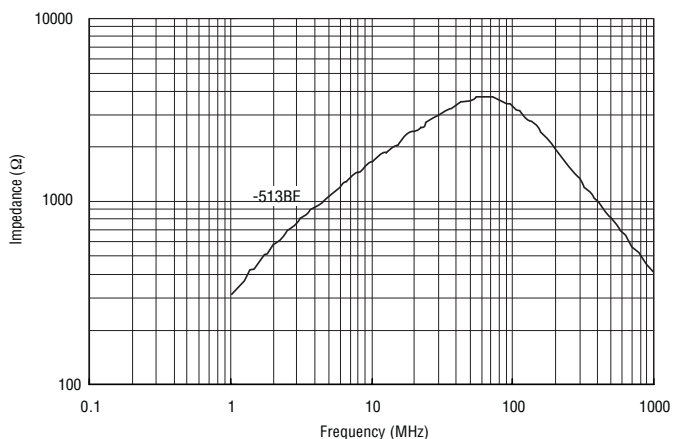
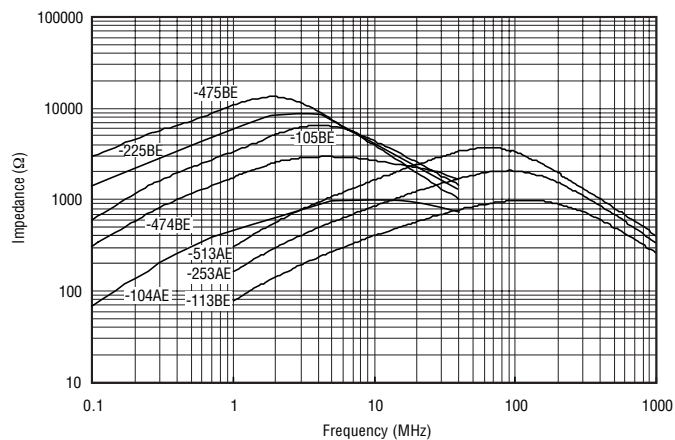
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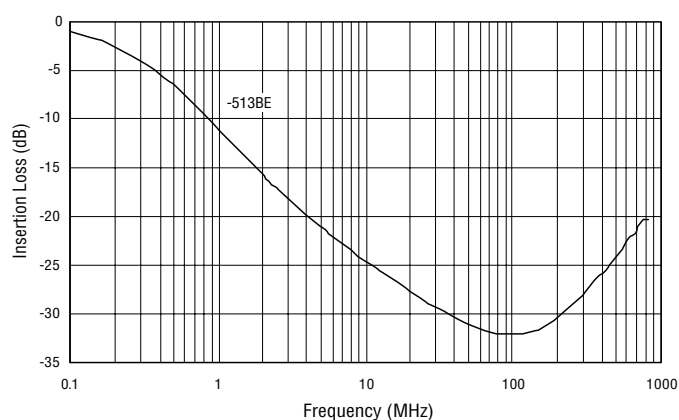
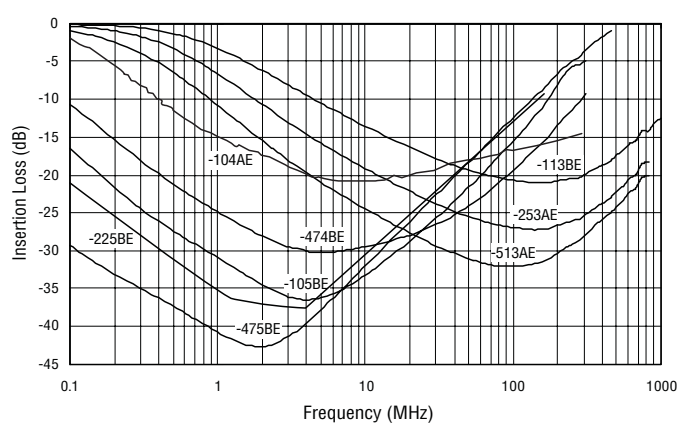
## Solder Profile



## Impedance vs. Frequency



## Insertion Loss vs. Frequency

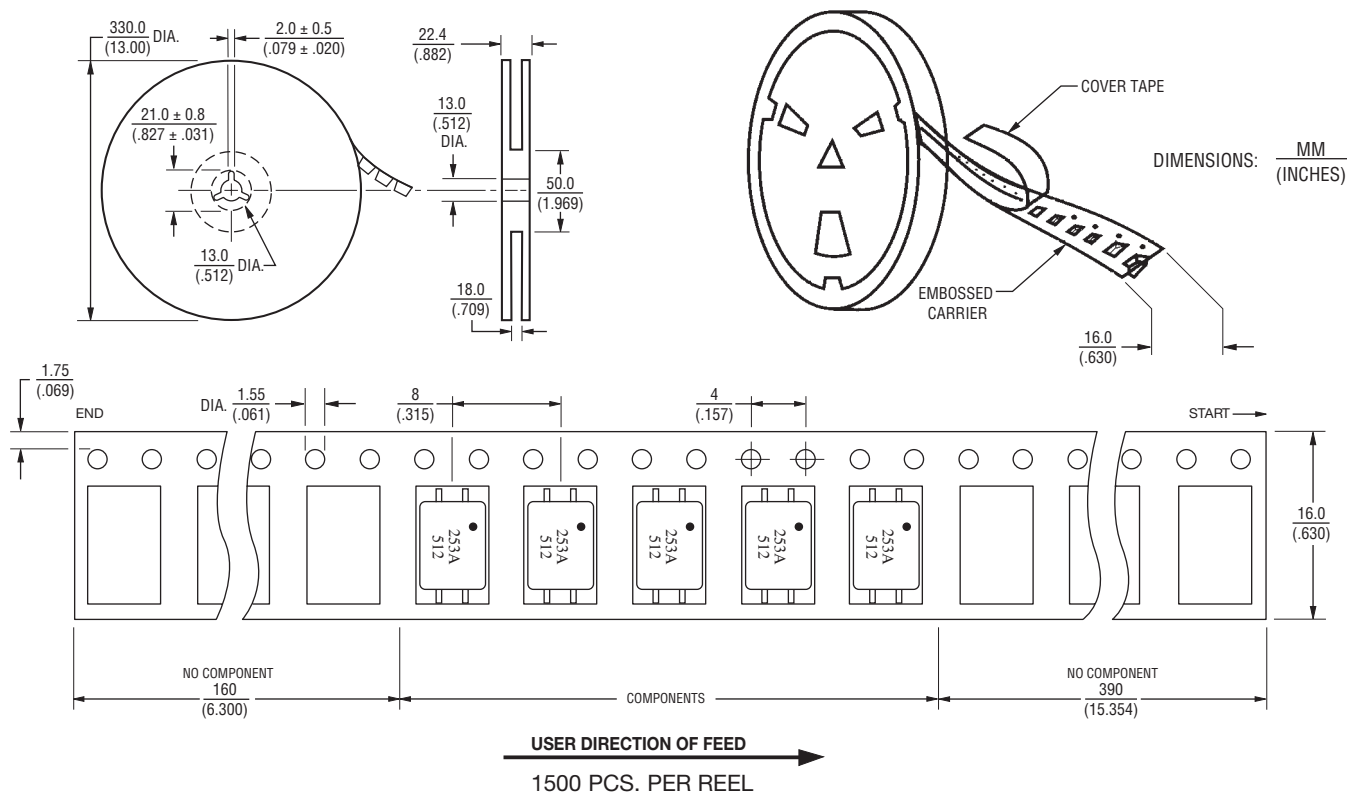


Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

# DR331 Series Surface Mount Data Line Chokes

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## Packaging Specifications



REV. 06/12

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# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



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