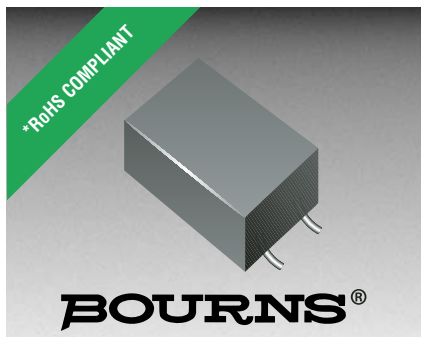




## Features

- Lead free
- RoHS compliant\*
- Bifilar or sector windings
- Wide frequency range over 1000MHz
- Rated current 0.2 to 0.5A
- Model DR331 recommended for new designs

## Applications

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

# DR332 Series Surface Mount Data Line Chokes

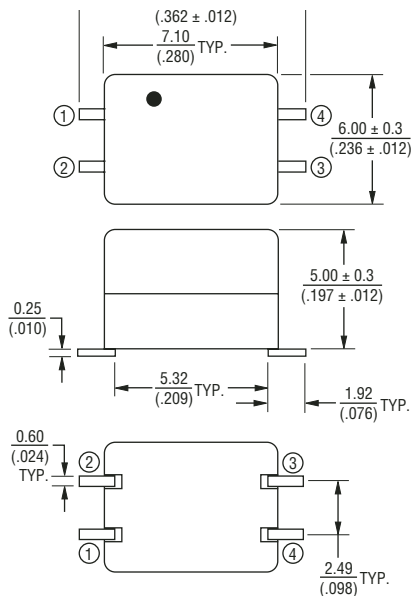
## Electrical Characteristics (@ 25 °C)

| Bourns Part Number | L (1-4)<br>@ 100 kHz,<br>0.1 Vrms<br>(μH) | LL (1-4)<br>@ 100 kHz,<br>0.1 Vrms<br>(Typ.) (2-3 Short) | RDC (Ω)<br>(Winding)<br>Max.<br>(Ω) | Rated Current<br>Max. | Winding |
|--------------------|-------------------------------------------|----------------------------------------------------------|-------------------------------------|-----------------------|---------|
| DR332-113AE        | 11.0 +25 %                                | 0.05 μH                                                  | 0.12                                | 0.5 A                 | Bifilar |
| DR332-253AE        | 25.0 +25 %                                | 1.50 μH                                                  | 0.20                                | 0.5 A                 | Sector  |
| DR332-513AE        | 51.0 +25 %                                | 2.00 μH                                                  | 0.30                                | 0.5 A                 | Sector  |
| DR332-474AE        | 470.0 +25 %                               | 0.28 μH                                                  | 0.28                                | 0.5 A                 | Bifilar |
| DR332-105AE        | 1000.0 +25 %                              | 0.29 μH                                                  | 0.40                                | 0.5 A                 | Bifilar |
| DR332-475AE        | 4700.0 +25 %                              | 0.30 μH                                                  | 0.70                                | 0.2 A                 | Bifilar |

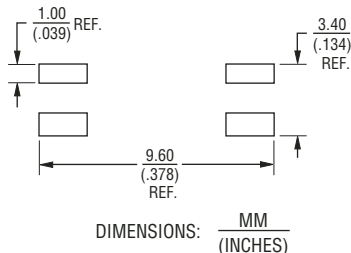
Note: For tape and reel packaging, add "E" at the end of part number.

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 .....PPHS (UL 94V-0)  
 Terminal .....Cu/Ni/Sn  
 Adhesive.....Epoxy resin  
 Packaging .....1500 pcs. per reel

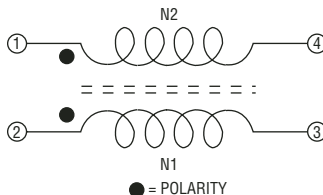
## Product Dimensions



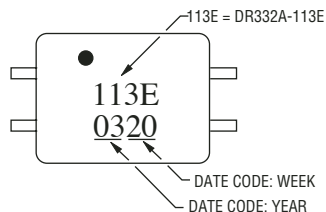
## Recommended PCB Layout



## Schematic



## Typical Part Marking



\*Model DR443-475:  
 Operating Temperature ....-40 to +100 °C  
 Storage Temperature .....-40 to +100 °C

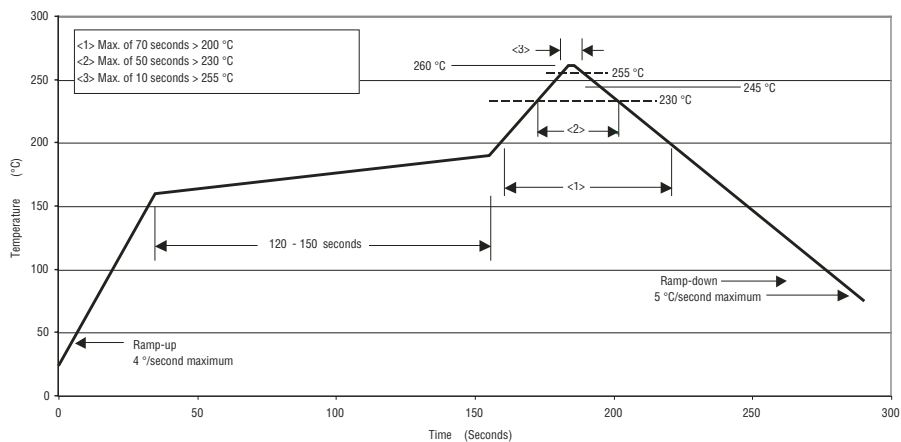
## How to Order

Model **DR332 - 513 AE**  
 Value Code .....  
 See Model-Value Table  
 Termination .....  
 AE = Cu/Ni/Sn (Lead Free)

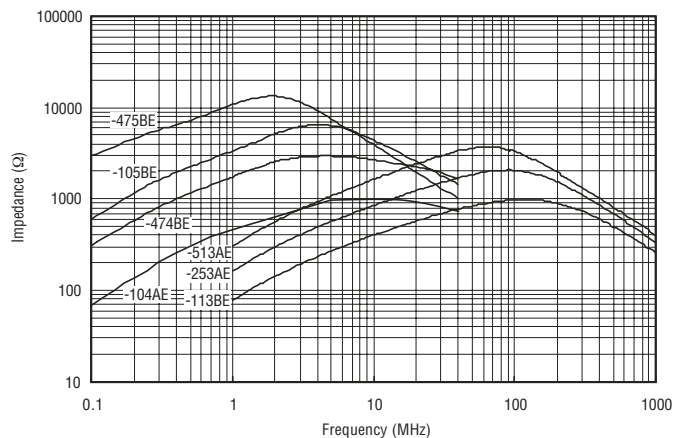
# DR332 Series Surface Mount Data Line Chokes

**BOURNS®**

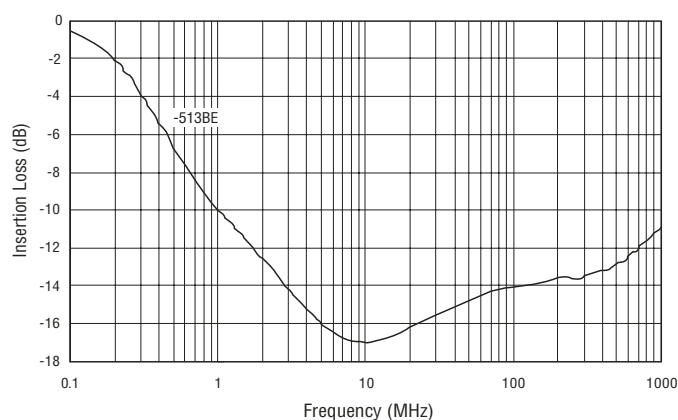
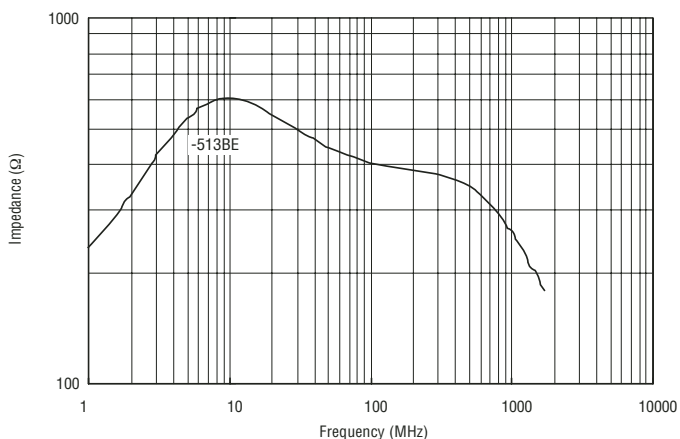
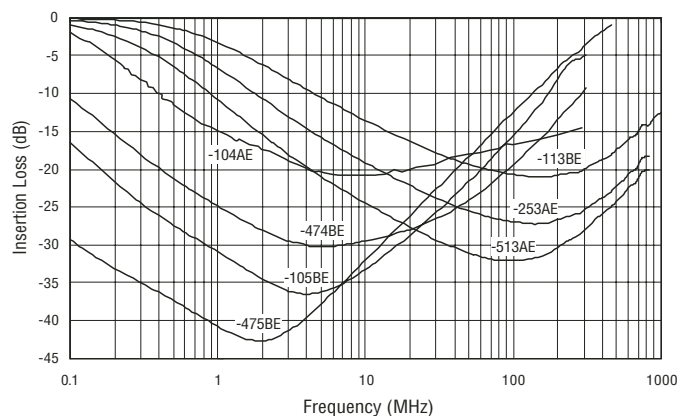
## Solder Profile



## Impedance vs. Frequency



## Insertion Loss vs. Frequency



REV. 05/05

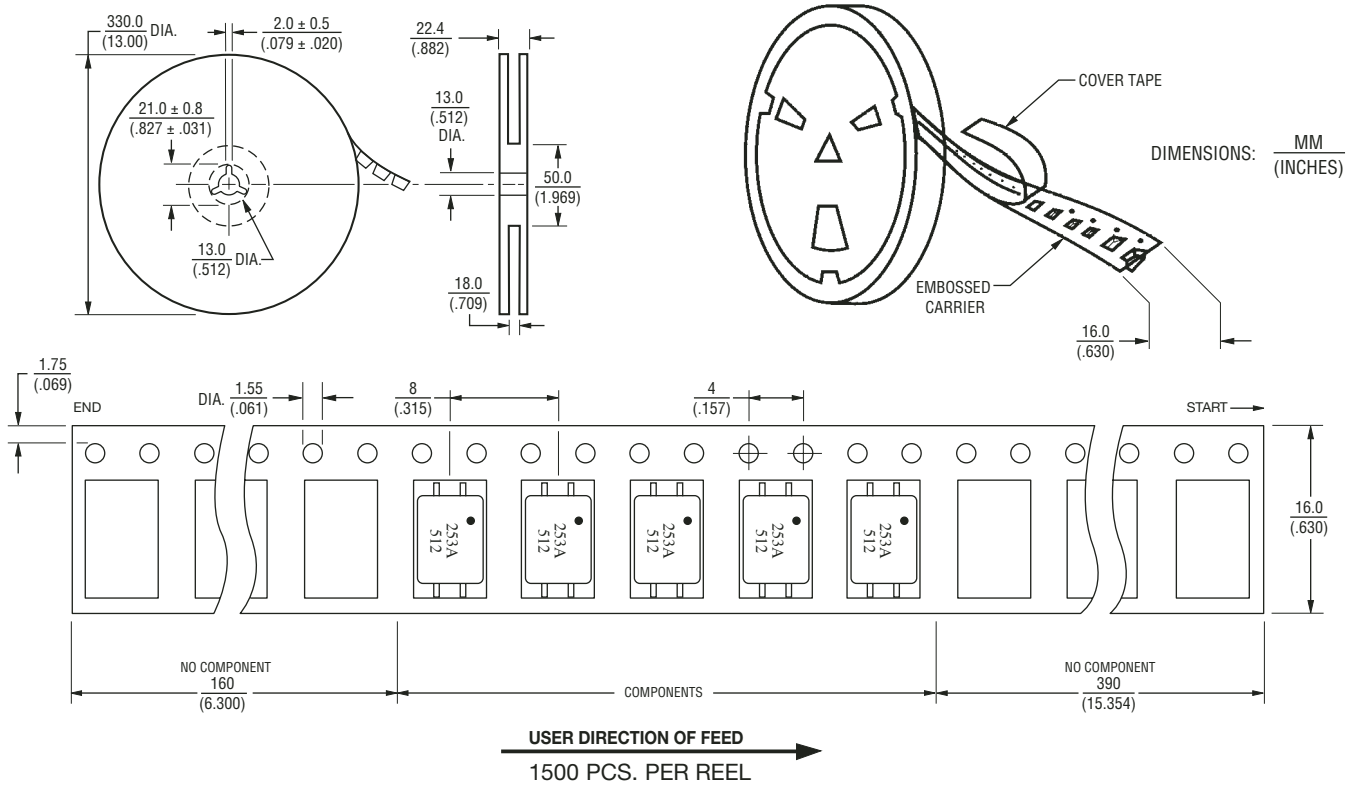
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

# DR332 Series Surface Mount Data Line Chokes

**BOURNS®**

## Packaging Specifications



REV. 05/05

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