



## Features

- Lead free
- RoHS compliant\*
- 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

## Applications

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

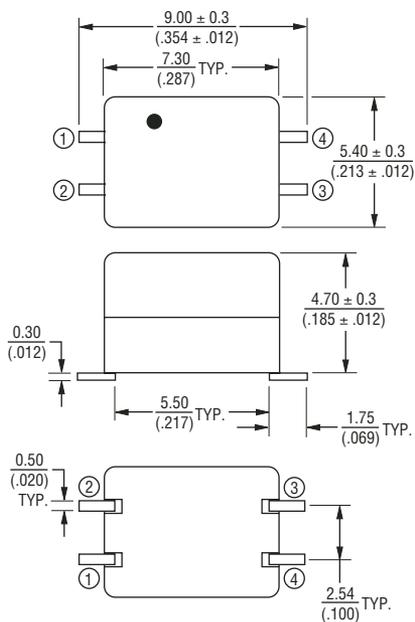
# DR331 Series Surface Mount Data Line Chokes

### Electrical Characteristics (@ 25 °C)

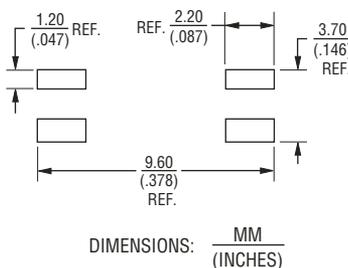
Bourns Part Number	L (1-4) @ 100 kHz, 0.1 Vrms (μH)	LL (1-4) @ 100 kHz, 0.1 Vrms (Typ.) (2-3 Short)	RDC (Ω) (Winding) Max.	Rated Current Max.	Winding
DR331-113BE	11.0 +25 %	0.05 μH	0.12	0.5 A	Bifilar
DR331-253AE	25.0 +25 %	1.50 μH	0.20	0.5 A	Sector
DR331-513AE	51.0 +25 %	2.00 μH	0.30	0.5 A	Sector
DR331-513BE	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
DR331-475BE	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 .....Enamelled copper wire (Class F)  
 Base .....PPHS (UL 94V-0)  
 Terminal .....Cu/Ni/Sn  
 Adhesive.....Epoxy resin  
 Packaging .....1500 pcs. per reel

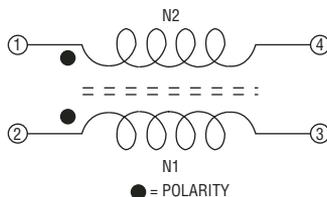
### Product Dimensions



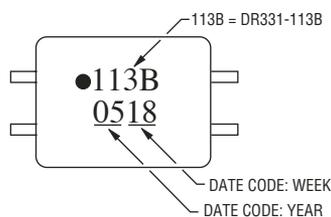
### Recommended PCB Layout



### Schematic



### Typical Part Marking



### How to Order

**DR331 - 253 A E**

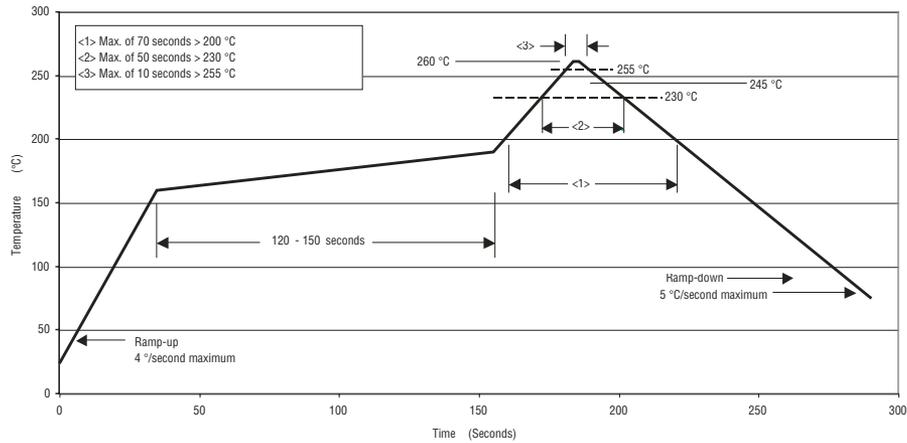
Model \_\_\_\_\_  
 Value Code \_\_\_\_\_  
 See Model-Value Table  
 Winding Type \_\_\_\_\_  
 A = Sector  
 B = Bifilar  
 Terminal \_\_\_\_\_  
 E = Cu/Ni/Sn (Lead Free)

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

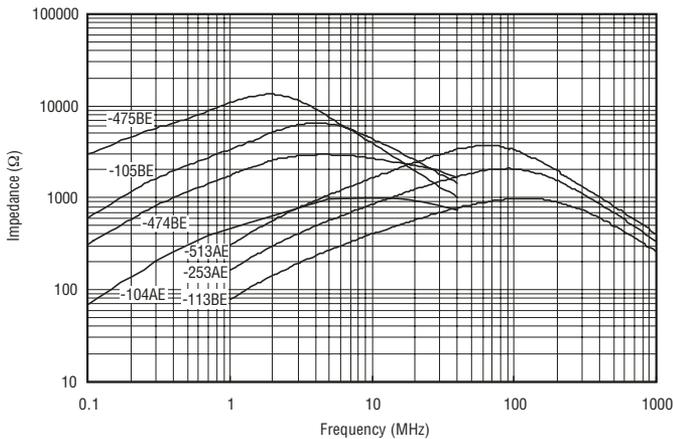
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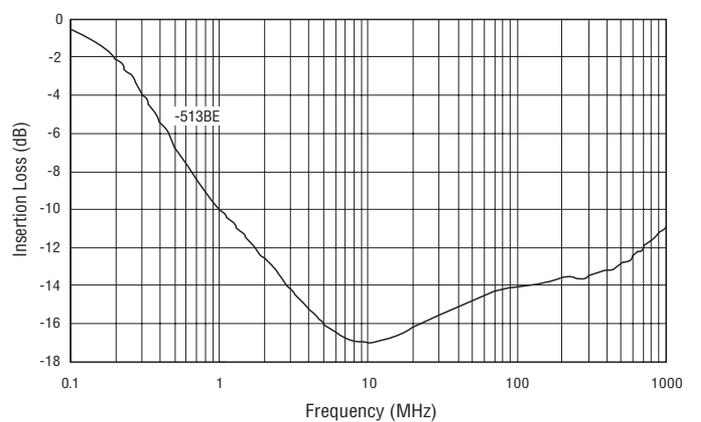
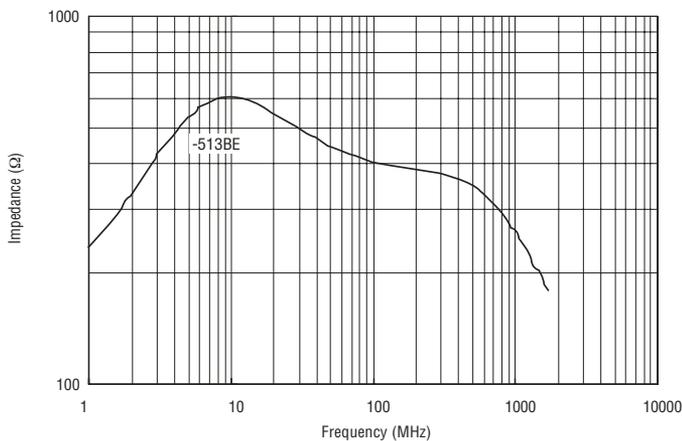
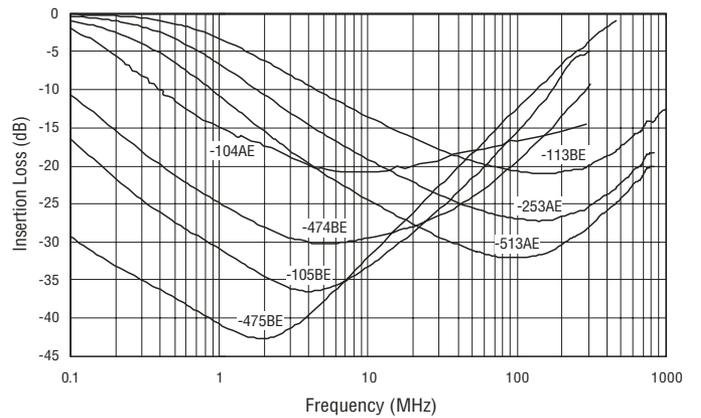
## Solder Profile



## Impedance vs. Frequency



## Insertion Loss vs. Frequency

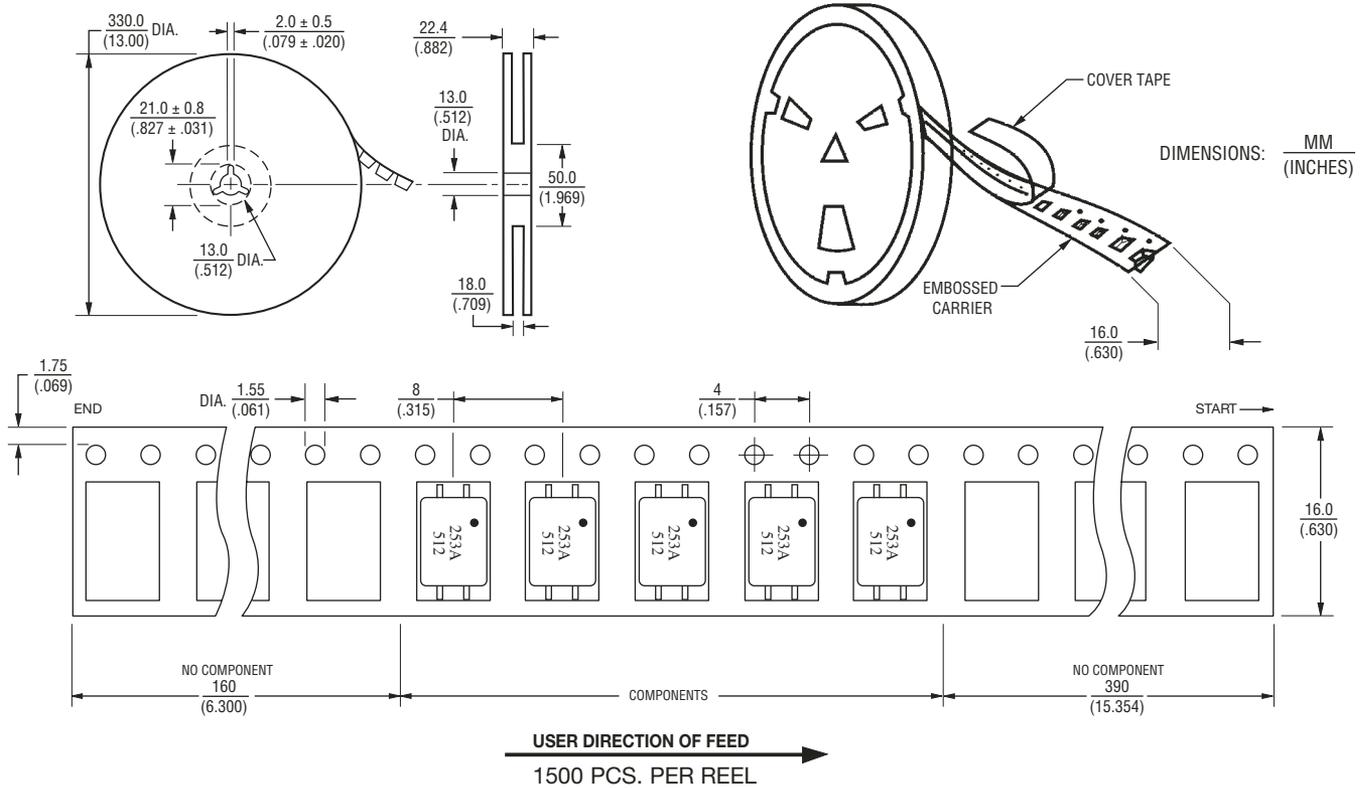


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## Packaging Specifications



REV. 06/06

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