



**THE DATASHEET OF  
DR331-513AE**





### 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

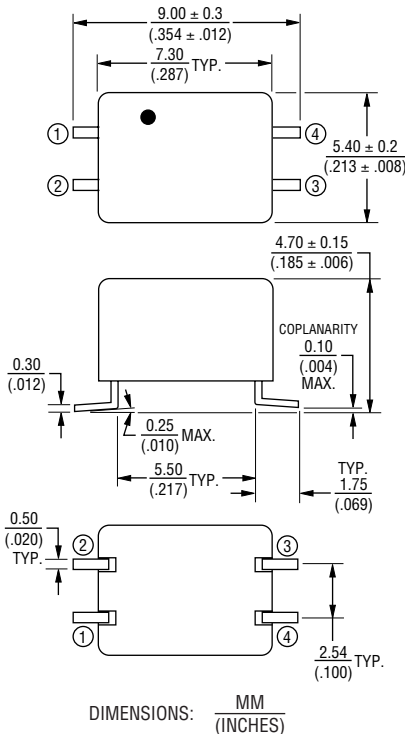
- For the suppression of EMI in data and signal lines

## DR331 Series Surface Mount Data Line Chokes

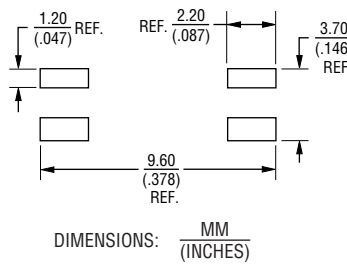
### Electrical Specifications @ 25 °C

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 (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

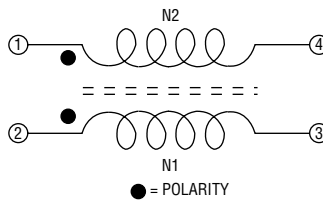
### Product Dimensions



### Recommended Layout



### Schematic



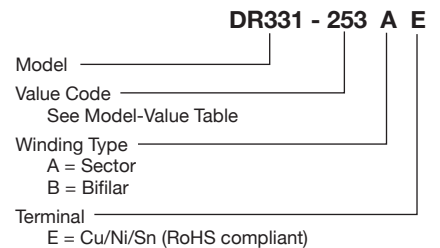
### General Specifications

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

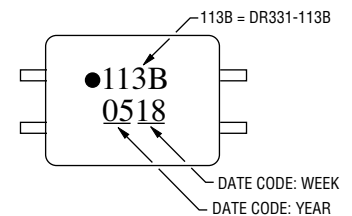
### Materials

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



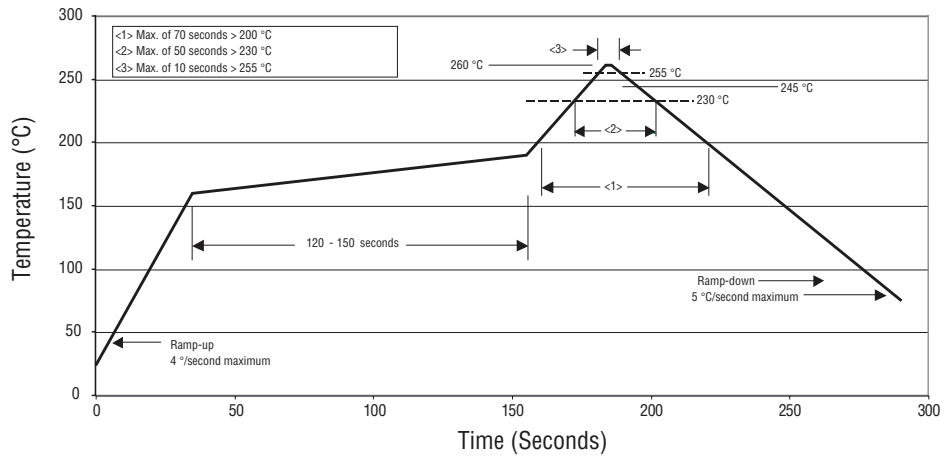
**WARNING**  
 Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* 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. 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).

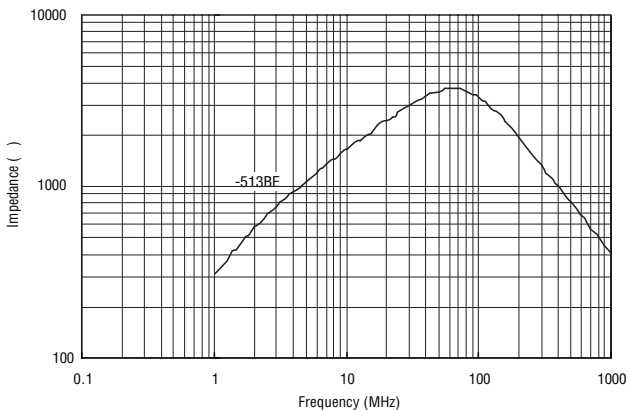
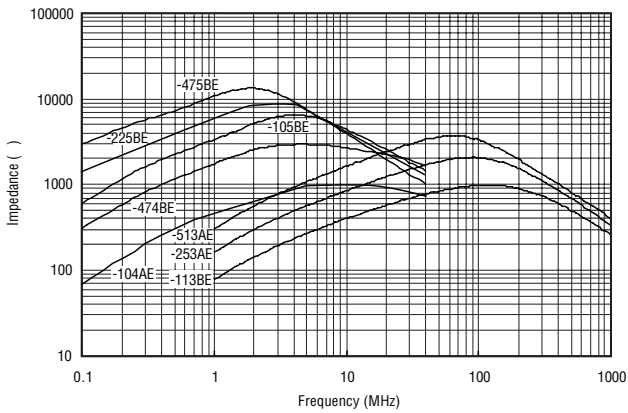
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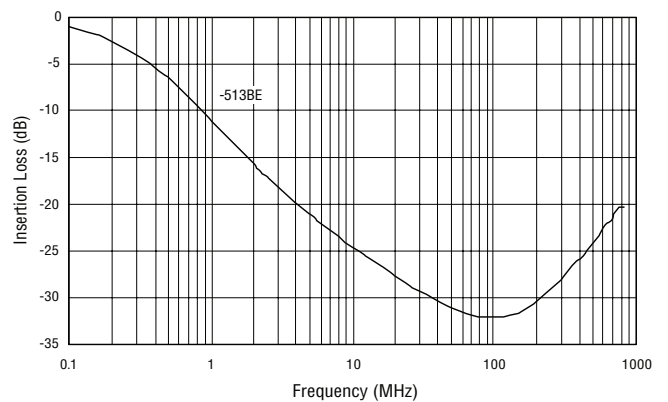
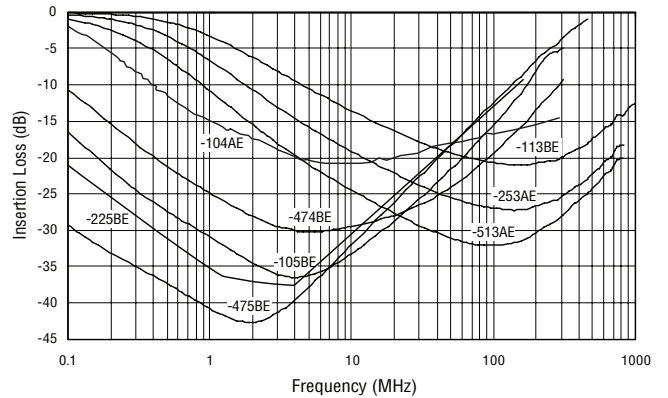
## Solder Profile



## Impedance vs. Frequency



## Insertion Loss vs. Frequency



Specifications are subject to change without notice.

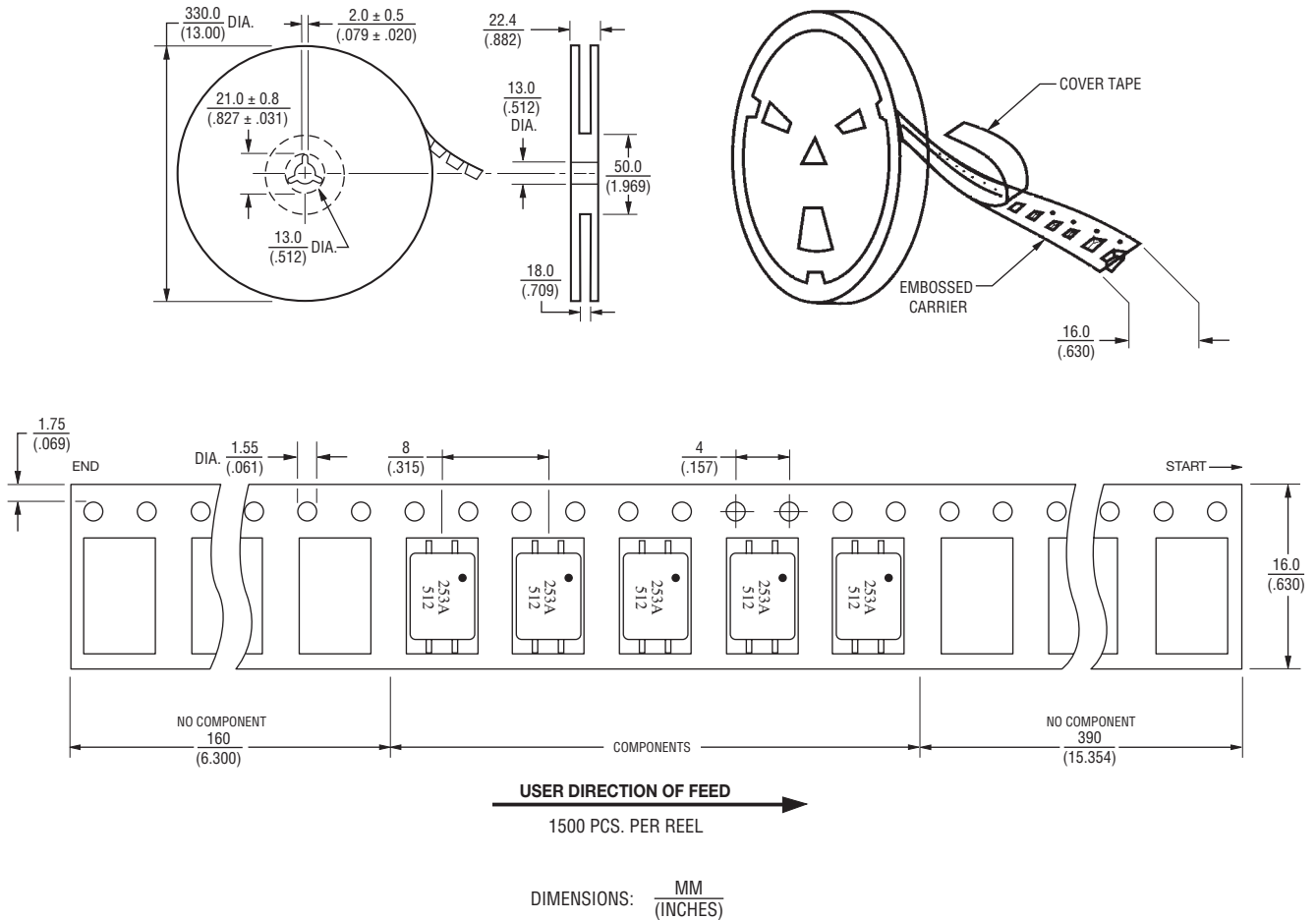
Users should verify actual device performance in their specific applications.

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# DR331 Series Surface Mount Data Line Chokes

**BOURNS®**

## Packaging Specifications



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