



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

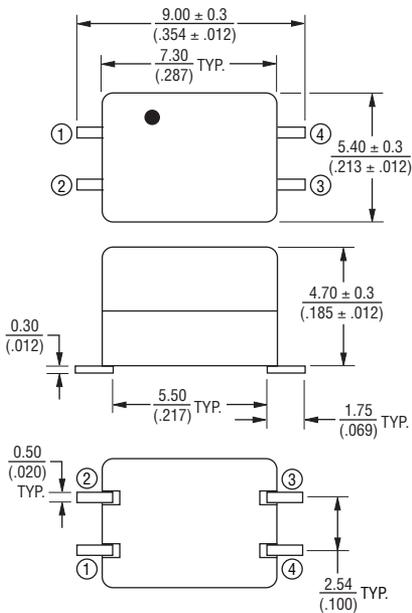
- For the suppression of EMI in data and signal lines, e.g. CANbus

DR331 Series Surface Mount Data Line Chokes

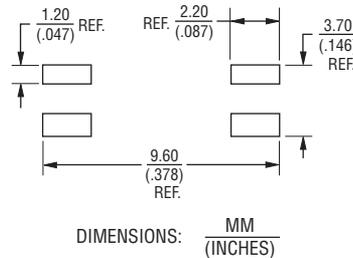
Electrical Specifications @ 25 °C

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
DR331-513BE	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

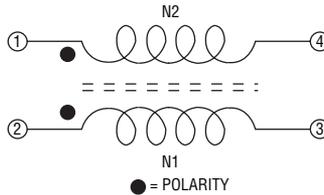
Product Dimensions



Recommended Layout



Schematic

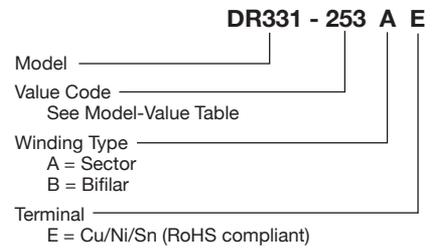


Rated Voltage.....80 Vdc/42 Vac
 Hipot (1 sec.)..... 250 Vac/60 Hz, 3 mA
 Operating Temperature.....-40 °C to +135 °C
 Storage Temperature.....-55 °C to +135 °C
 Temperature Rise.....30 °C max. at rated current
 Resistance to Solder Heat..... +260 °C, 10 sec.
 Moisture Sensitivity Level..... 1
 ESD Classification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

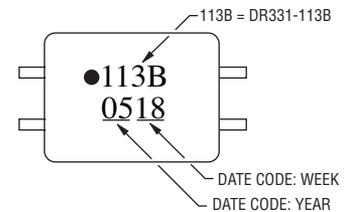
Materials

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

How to Order



Typical Part Marking



Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

*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.

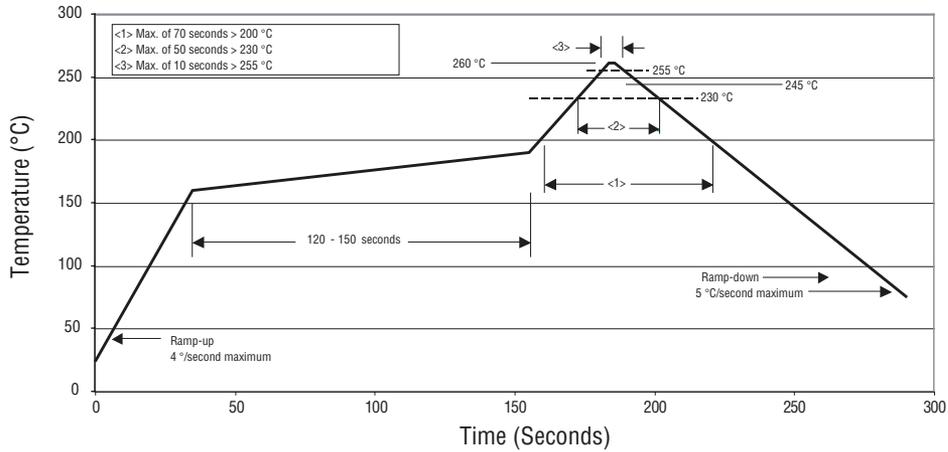
Users should verify actual device performance in their specific applications.

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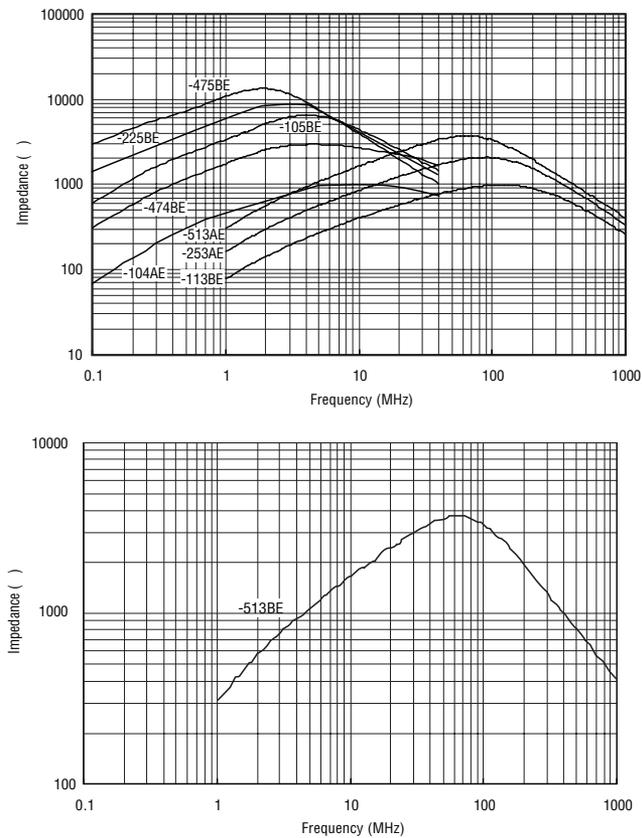
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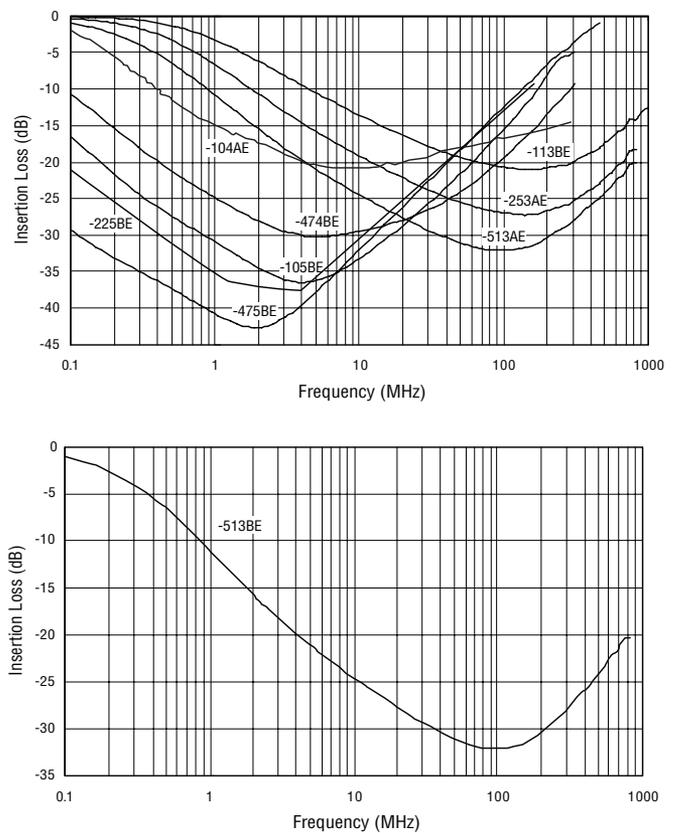
Solder Profile



Impedance vs. Frequency



Insertion Loss vs. Frequency



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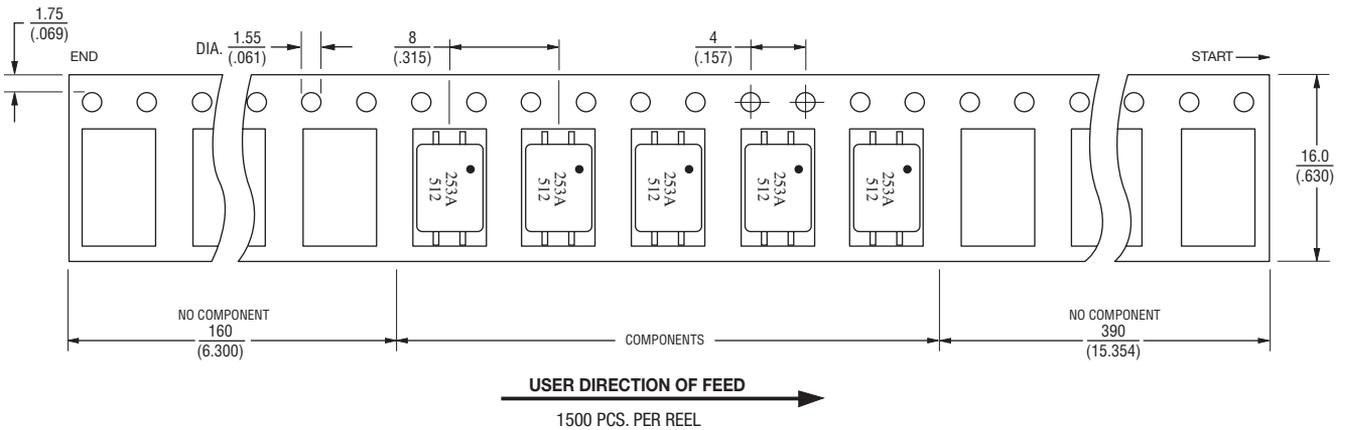
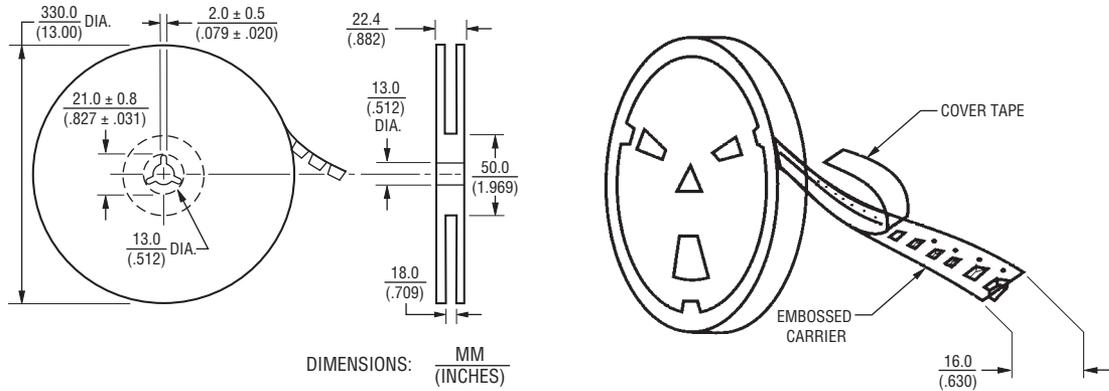
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DR331 Series Surface Mount Data Line Chokes

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Packaging Specifications



REV. 10/17

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