



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

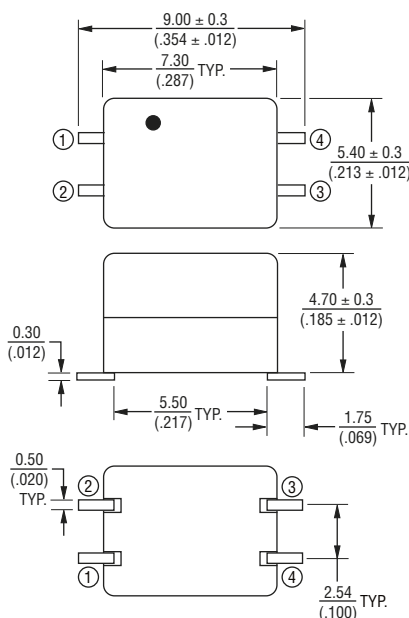
- For the suppression of EMI in data and signal lines

DR331 Series Surface Mount Data Line Chokes

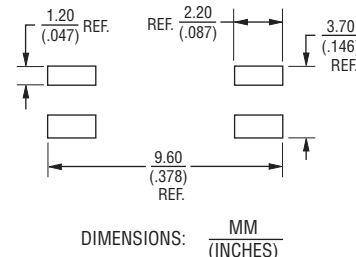
Electrical Specifications @ 25 °C

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 (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
DR331-513AE	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

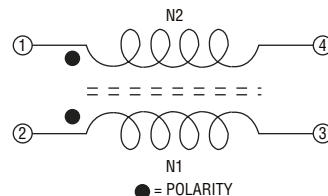
Product Dimensions



Recommended Layout



Schematic



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

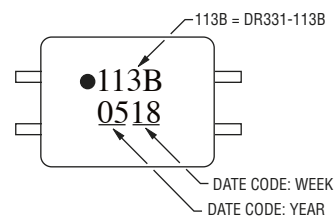
Materials

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

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



BOURNS®

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



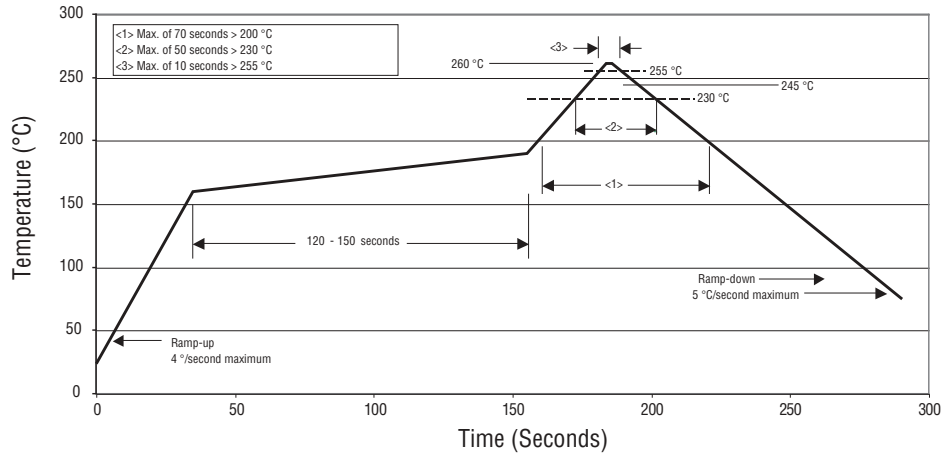
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*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. 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.

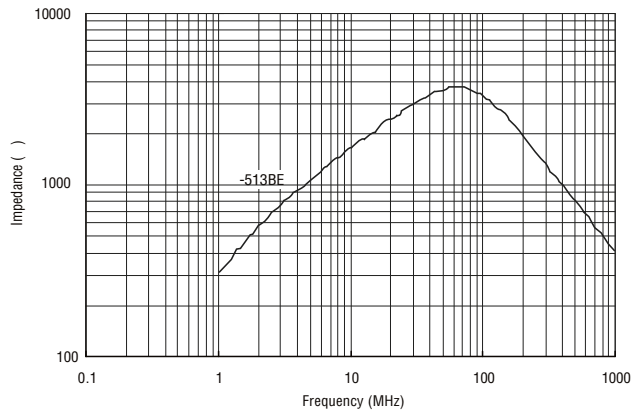
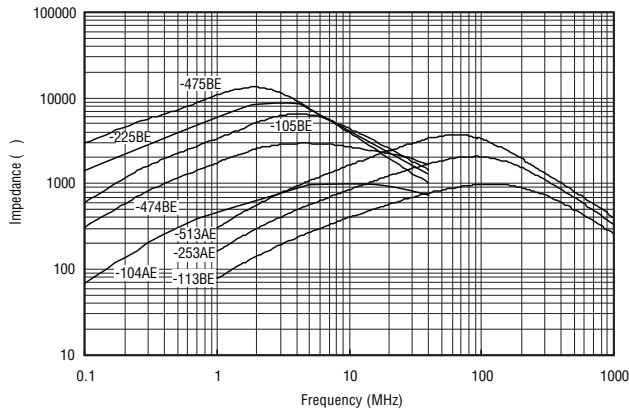
DR331 Series Surface Mount Data Line Chokes

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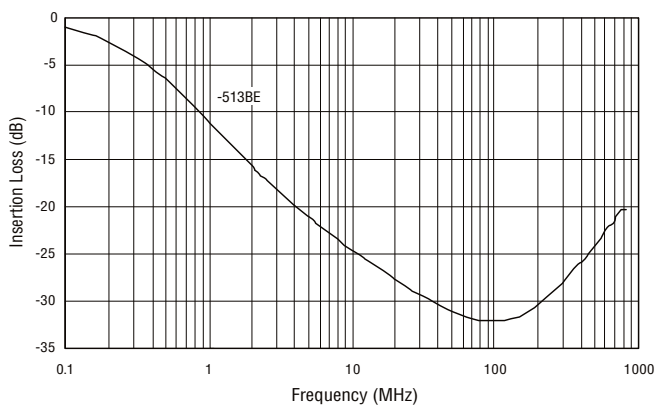
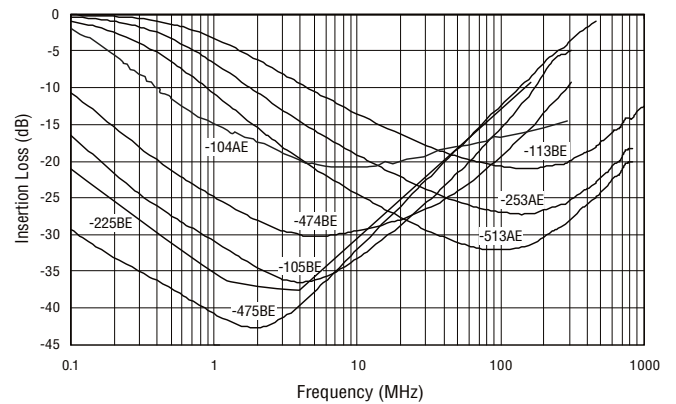
Solder Profile



Impedance vs. Frequency



Insertion Loss vs. Frequency



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Technical drawing of a 35mm film canister showing dimensions in mm and inches. The drawing includes a top view of the canister body with a central opening, a side view of the canister body, and a perspective view of the canister with a film strip being loaded. Dimensions are provided for the canister body, the film strip, and the cover tape.

Top View Dimensions:

- Outer diameter: 330.0 DIA. (13.00)
- Inner diameter: 2.0 ± 0.5 ($.079 \pm .020$)
- Central opening diameter: 21.0 ± 0.8 ($.827 \pm .031$)
- Inner diameter: 13.0 DIA. ($.512$)

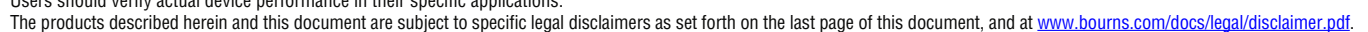
Side View Dimensions:

- Top diameter: 22.4 ($.882$)
- Inner diameter: 13.0 DIA. ($.512$)
- Height: 50.0 (1.969)
- Bottom diameter: 18.0 ($.709$)

Perspective View Dimensions:

- Film strip width: 16.0 ($.630$)
- Labels: COVER TAPE, EMBOSSED CARRIER

DIMENSIONS: MM (INCHES)



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