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

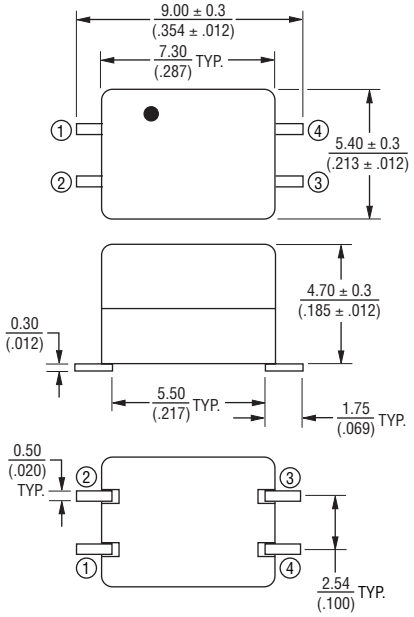
Bourns® Part No.	L (1-4) @ 100 kHz, 0.1 Vrms (μH)	LL (1-4) @ 100 kHz, 0.1 Vrms (Typ.) (2-3 Short)	RDC (W) (Winding) Max.	Rated Current Max.	Winding
DR331-113BE	11.0 ± 25 %	0.05 μH	0.12	0.5 A	Bifilar
DR331-253AE	25.0 ± 25 %	1.50 μH	0.20	0.5 A	Sector
DR331-513AE	51.0 ± 25 %	2.00 μH	0.30	0.5 A	Sector
DR331-513BE	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

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

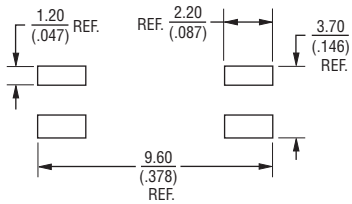
Materials

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

Product Dimensions

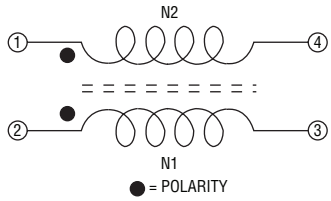


Recommended Layout



DIMENSIONS: MM / (INCHES)

Schematic

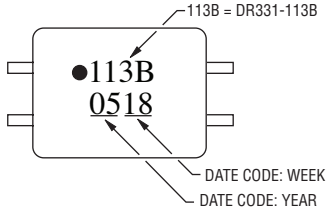


How to Order

DR331 - 253 A E

Model
Value Code
See Model-Value Table
Winding Type
A = Sector
B = Bifilar
Terminal
E = Cu/Ni/Sn (RoHS compliant)

Typical Part Marking



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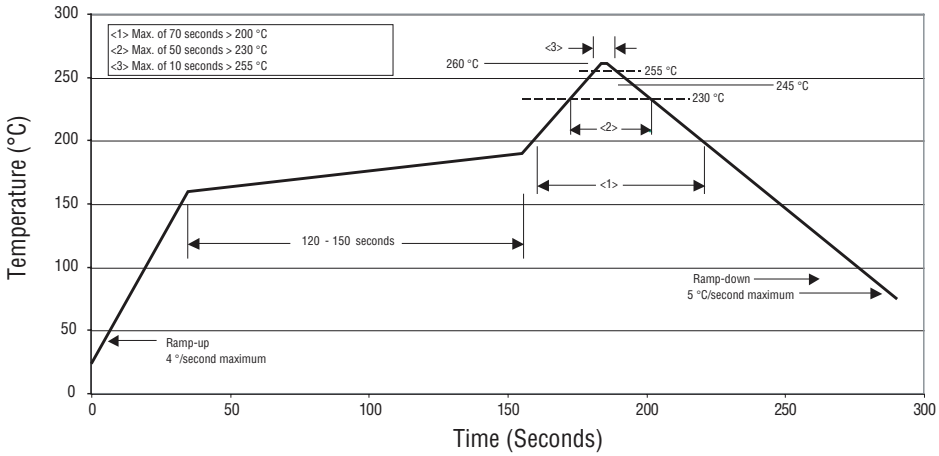
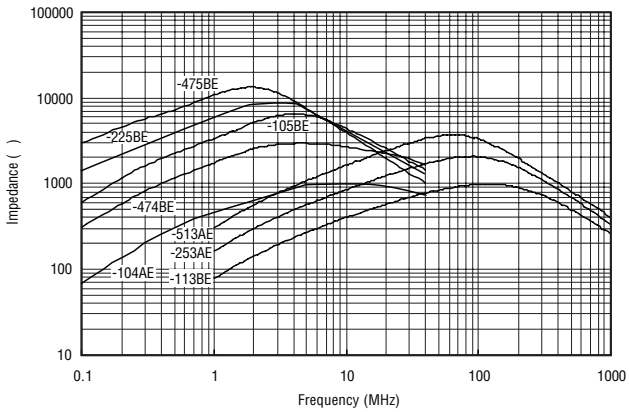
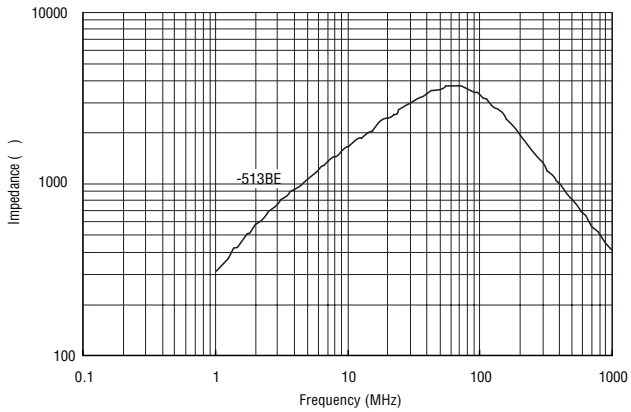
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

Solder Profile

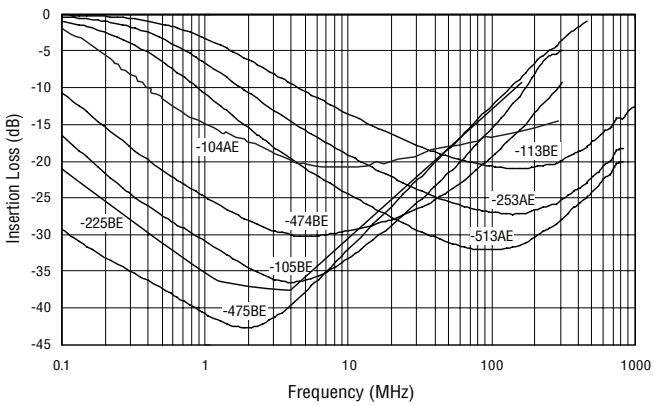


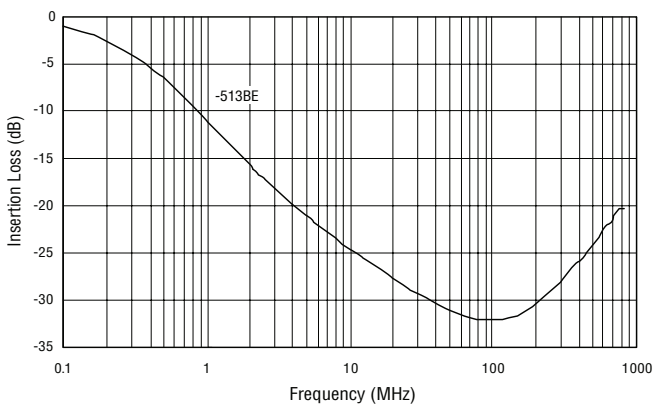
Impedance vs. Frequency





Insertion Loss vs. Frequency





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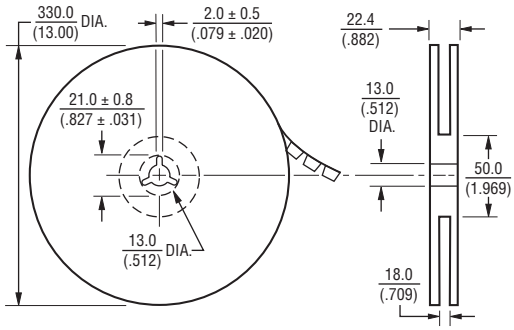
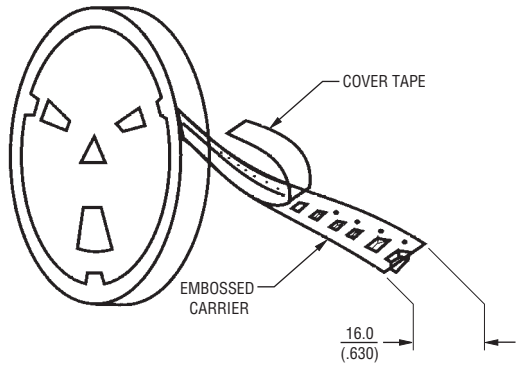
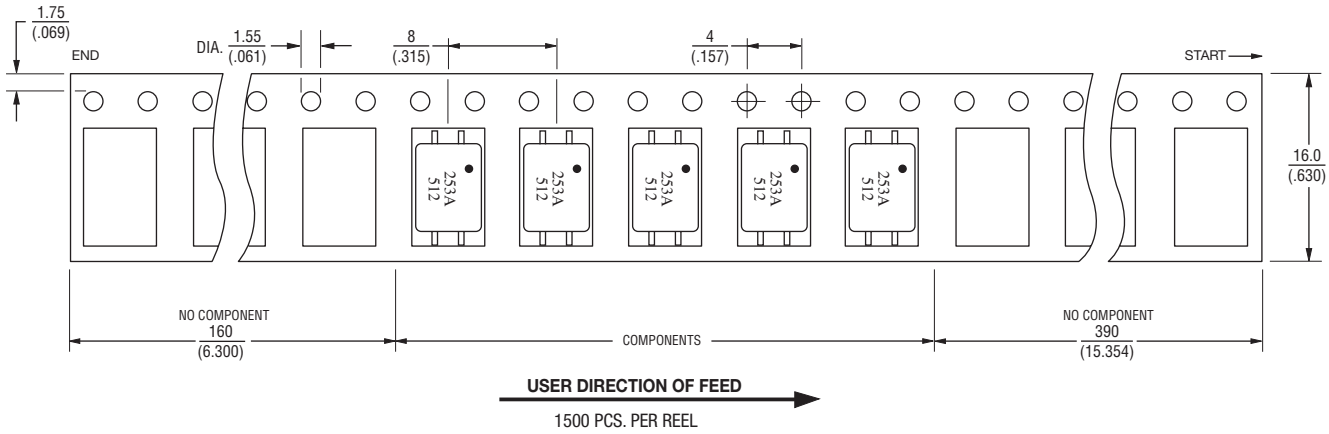
Packaging Specifications



DIMENSIONS: MM / (INCHES)





USER DIRECTION OF FEED

1500 PCS. PER REEL

REV. 03/18

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