

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

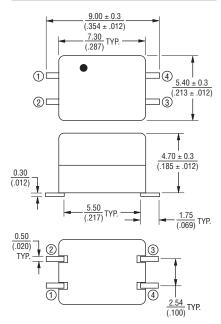
For the suppression of EMI in data and signal lines

DR331 Series Surface Mount Data Line Chokes

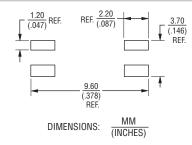
Electrical Specifications @ 25 °C

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 <i>μ</i> H	0.12	0.5 A	Bifilar
DR331-253AE	25.0 ± 25 %	1.50 <i>μ</i> H	0.20	0.5 A	Sector
DR331-513AE	51.0 ± 25 %	2.00 <i>μ</i> H	0.30	0.5 A	Sector
DR331-513BE	51.0 ± 25 %	0.60 <i>μ</i> H	0.30	0.5 A	Bifilar
DR331-104AE	100.0 ± 25 %	0.85 <i>μ</i> H	0.10	0.5 A	Sector
DR331-474BE	470.0 ± 25 %	0.28 <i>μ</i> H	0.28	0.5 A	Bifilar
DR331-105BE	1000.0 ± 25 %	0.29 <i>μ</i> H	0.40	0.5 A	Bifilar
DR331-225BE	2200.0 ± 25 %	0.30 <i>μ</i> H	0.70	0.3 A	Bifilar
DR331-475BE	4700.0 ± 25 %	0.30 <i>μ</i> H	0.70	0.2 A	Bifilar

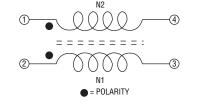
Product Dimensions



Recommended Layout

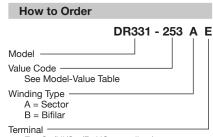


Schematic



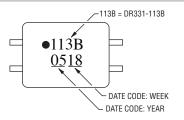
Rated Voltage			
Hipot (1 sec.) 250 \	/ac/60 Hz, 3 mA		
Operating Temperature			
4	0 °C to +135 °C		
Storage Temperature			
5	5 °C to +135 °C		
Temperature Rise			
30 °C max.	at rated current		
Resistance to Solder Hea	at		
+	-260 °C, 10 sec.		
Moisture Sensitivity Level1			
ESD Classification (HBM			
,	,		
Materials			
Core	Ferrite		
Wire Enameled coppe	er wire (Class F)		
	nolio (LÌL DAVA OÙ		

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



E = Cu/Ni/Sn (RoHS compliant)

Typical Part Marking



BOURNS®

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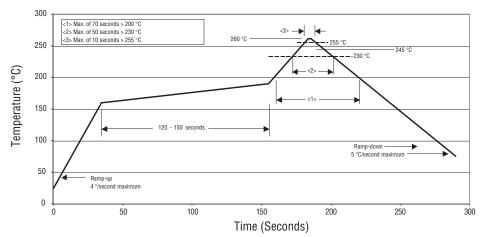
EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

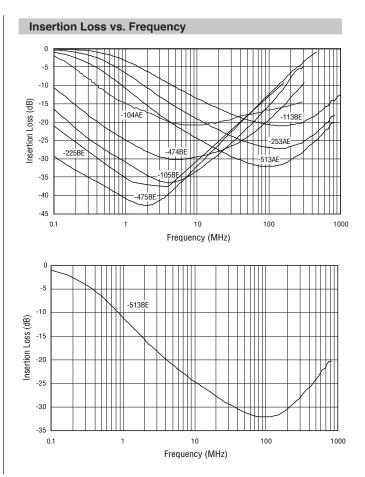
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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Solder Profile





Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

10

Frequency (MHz)

1

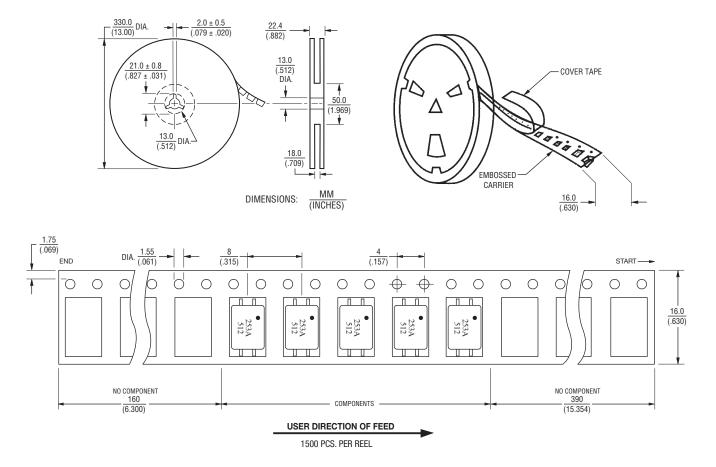
100

0.1

1000

100

Packaging Specifications



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