

Features

- RoHS compliant*
- Sector windings
- Wide frequency range over 500 MHz
- Rated current 0.1 to .025 A
- High quality toroidal core

Applications

For the suppression of EMI in data and signal lines

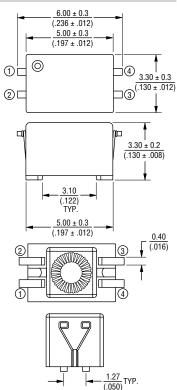
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DR221 Series Surface Mount Data Line Chokes

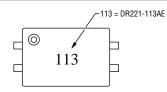
Electrical Specifications @ 25 °C

Bourns	L1, L2 @ 10 kHz, 0.1 Vrms	Freq. Range	Impedance (Ω)	RDC (Ω) (Each Wind- ing)		Rated Current
Part No.	(μH)	(MHz)	Min.	Max.	Тур.	(mA)
DR221-113AE	11.0 +50 %/-30 %	100~500	450	0.18	0.13	250
DR221-223AE	22.0 +50 %/-30 %	40~300	900	0.23	0.17	250
DR221-333AE	33.0 +50 %/-30 %	30~250	1000	0.27	0.20	200
DR221-513AE	50.0 +50 %/-30 %	20~150	1400	0.32	0.24	200
DR221-474AE	470 +50 %/-30 %	2.5~60	1100	0.35	0.28	100

Product Dimensions

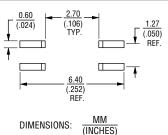


Typical Part Marking





Recommended PCB Layout



How to Order

Model —	DR221	-	513	AE
Value/Tolerance See Model-Value Table				
Termination — AE = Cu/Ni/Sn (Lead Fre	ee)			

Solder Profile

<3> <2> Max. of 50 seconds > 230 °C 260 °C <3> Max. of 10 seconds > 255 °C 250 245 °C -230 °C Tin-Lead <4> Max. of 30 seconds > 200 ° 200 00 ead Free **Femperature** 150 Tin-Lea 120 - 150 second 100 50 Ramp-up 4 °/second maximum 0 50 250 100 200 300 0 150 Time (Seconds)

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

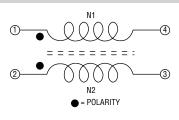
Users should verify actual device performance in their specific applications.

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General Specifications

Rated Voltage 50 Vdc/100 Vac (ref.) Hipot (1 sec.) 500 Vac/60 Hz, 3 mA
Operating Temperature40 to +125 °C
Storage Temperature40 to +125 °C
Temperature Rise
25 °C max. at rated current
Resistance to Solder Heat
Moisture Sensitivity Level1
ESD Classification (HBM)N/A
Materials
CoreFerrite
Wire Enameled copper wire (Class F)
BaseLCP (UL 94V-0)
()
TerminalCu/Ni/Sn

Schematic



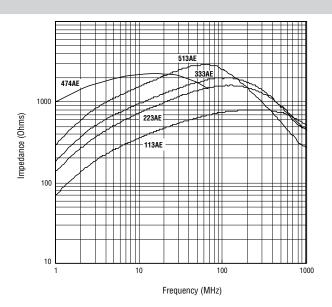
Adhesive.....Epoxy resin Weight2 g

Packaging...... 500 pcs. per reel

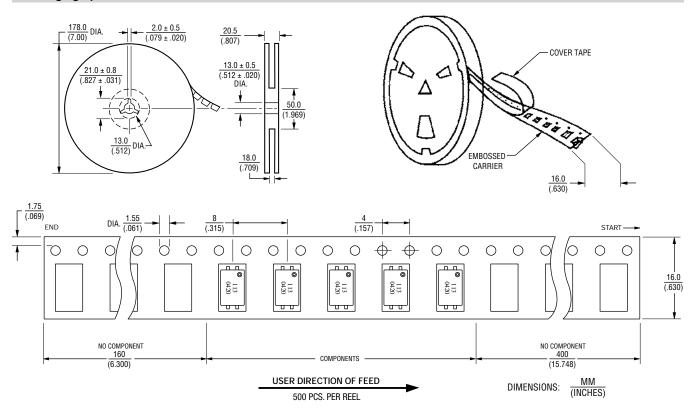
DR221 Series Surface Mount Data Line Chokes

BOURNS

Impedance vs. Frequency



Packaging Specifications



REV. 11/19

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