


## Features

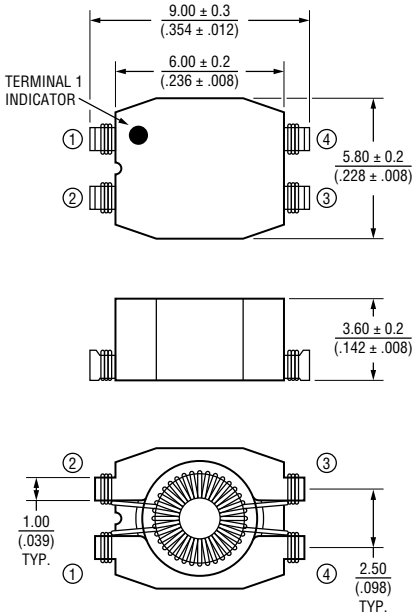
- Bifilar or sector windings
- Toroid core, self-shielding, low radiation
- Wide EMI suppression frequency range
- AEC-Q200 compliant
- RoHS compliant* and Halogen free**

# DR334A Series – Line Filter

### Electrical Specifications @ 25 °C

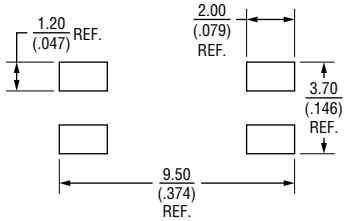
| Bourns Part No. | L (μH), N1 & N2 @ 100 kHz, 0.1 Vrms | | Leakage 1-4 (μH) @ 100 kHz, 0.1 Vrms (Typ.) (2-3 Short) | DCR (Ω) Max. | Irms (A) Typ. | Peak Impedance Z (Ω) Min. @ MHz | Winding |
|---|---|---|---|---|---|---|---|
| | L (μH) | Tol. | | | | | |
| DR334A-113BE | 11 | ±50 % | 0.05 μH | 0.12 | 0.5 A | 300 @ 20-300 | Bifilar |
| DR334A-253AE | 25 | ±50 % | 1.50 μH | 0.20 | 0.5 A | 700 @ 20-150 | Sector |
| DR334A-513AE | 51 | ±50 % | 2.00 μH | 0.30 | 0.5 A | 1500 @ 20-100 | Sector |
| DR334A-104AE | 100 | ±50 % | 0.85 μH | 0.10 | 0.5 A | 700 @ 3-20 | Sector |
| DR334A-474BE | 470 | ±50 % | 0.28 μH | 0.28 | 0.5 A | 2000 @ 2-15 | Bifilar |
| DR334A-105BE | 1000 | ±50 % | 0.29 μH | 0.40 | 0.5 A | 2800 @ 1-10 | Bifilar |
| DR334A-475BE | 4700 | ±50 % | 0.30 μH | 0.70 | 0.2 A | 6000 @ 0.5-3 | Bifilar |

### Product Dimensions



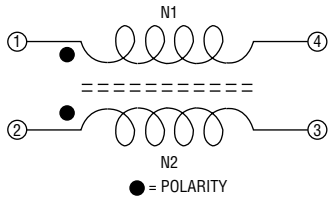

DIMENSIONS: MM (INCHES)

### Recommended Layout

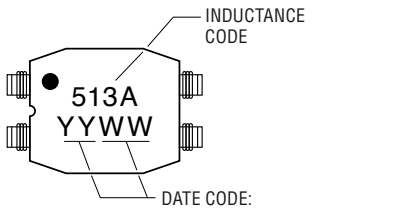



DIMENSIONS: MM (INCHES)

### Schematic




### Typical Part Marking




### Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

### General Specifications

Rated Voltage ..... 80 VDC / 42 VAC
Hi-Pot (1 sec.)..... 250 VAC/60 Hz, 3 mA
Operating Temperature
..... -40 °C to +135 °C
(Temperature rise included)
Storage Temperature
..... -40 °C to +135 °C
Temperature Rise
.....30 °C max. at rated Irms
Moisture Sensitivity Level.....1
ESD Classification (HBM)..... N/A

### Materials

Core..... Ferrite, toroid
Wire .....Enameled copper
Terminal..... Sn
Packaging..... 1500 pcs. per 13-inch reel

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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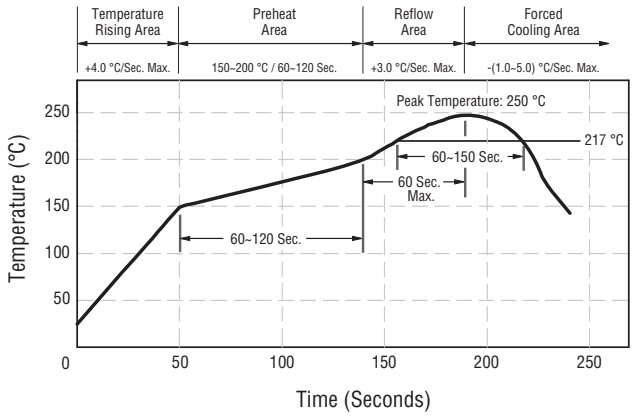
**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

## Solder Profile

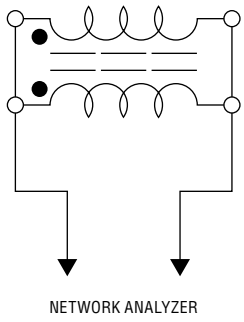



Peak Temperature:
250 ° C max.

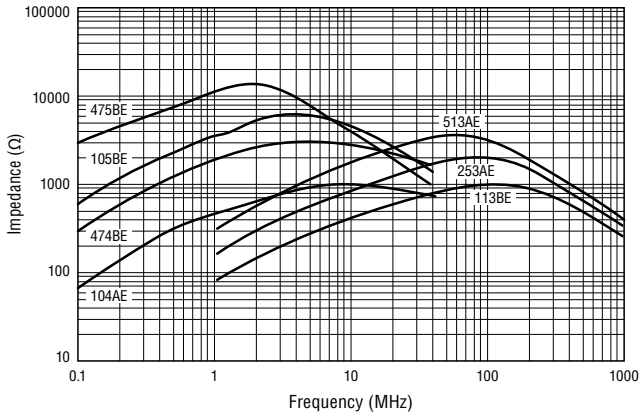
Max. Peak Temperature -5 °C:
30 sec. max.

Max. Time Above 217 °C:
90-150 sec. max.

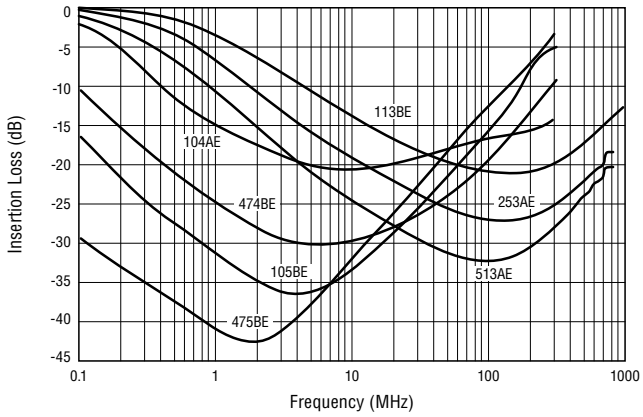
## Measurement Schematic




## Impedance vs. Frequency




## Insertion Loss vs. Frequency

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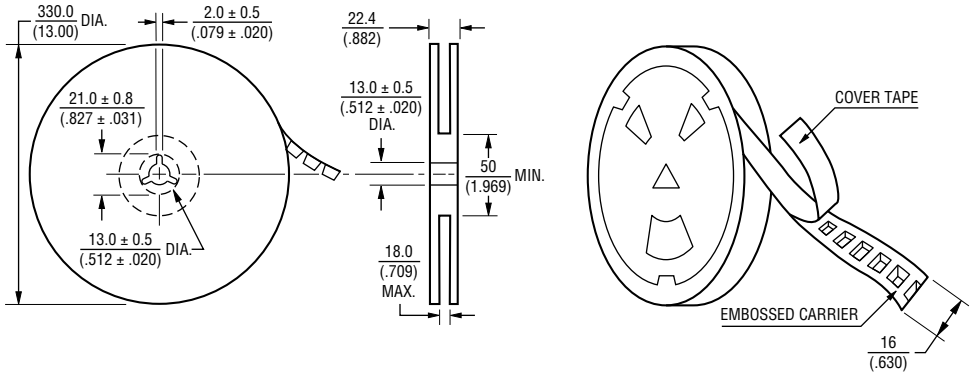
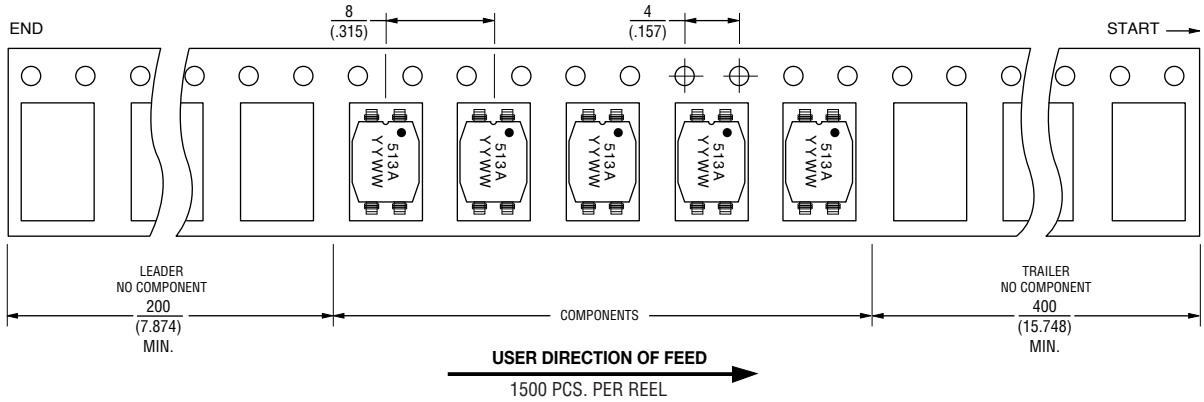
## Packaging Specifications




DIMENSIONS: MM (INCHES)

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