

EMI Suppression Beads (2643001501)



Part Number: 2643001501

43 SHIELD BEAD

Explanation of Part Numbers:

- Digits 1 & 2 = Product Class
- Digits 3 & 4 = Material Grade
- Last digit 1= Not Burnished 2 = Burnished
- The last digit of the Parylene coated part is a “4,” which is available upon request. The minimum coating thickness beads is 0.005 mm (0.0002”).

Fair- Rite offers a broad selection of ferrite EMI suppression beads with guaranteed minimum impedance specifications.

Our “Shield Bead Kit” (part number 0199000019) contains a selection of these beads.

For any EMI suppression bead requirement not listed here, feel free to contact our customer service for availability and pricing.

[Catalog Drawing](#)
[3D Model](#)

The C dimension, the bead length, can be modified to suit specific applications.

Weight: 0.1 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A | 3.5 | ±0.20 | 0.138 | — |
| B | 1.6 | ±0.10 | 0.063 | — |
| C | 3.25 | ±0.25 | 0.128 | — |

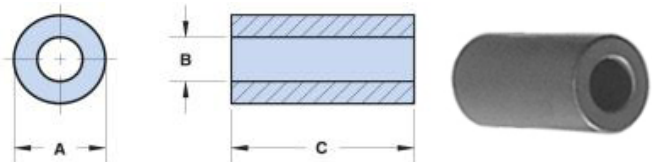


Chart Legend

+ Test frequency

• The column "H (Oe)" gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of “H” times the actual NI (ampere- turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note □How to choose Ferrite Components for EMI Suppression□.

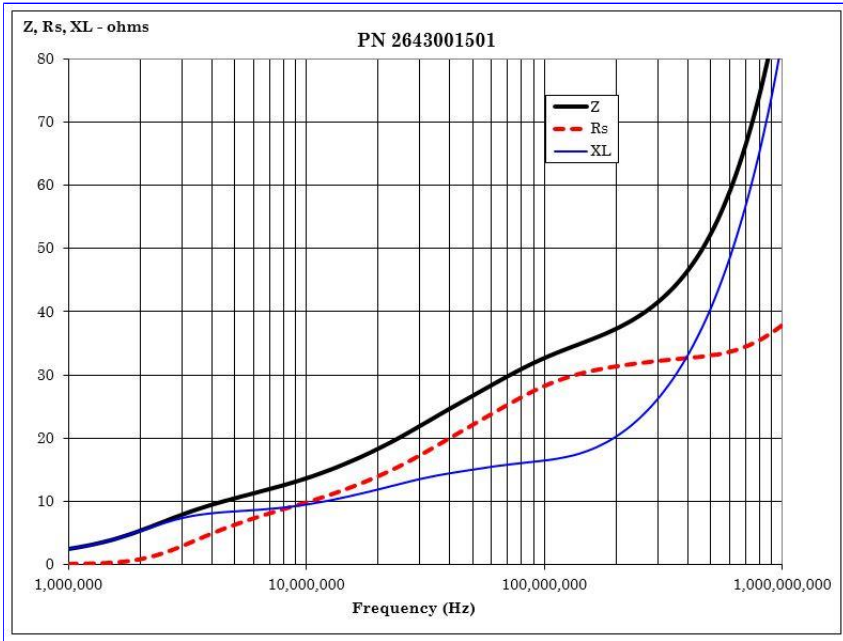
| Typical Impedance (Ω) | |
|-----------------------|----|
| 10 MHz | 13 |
| 25 MHz ⁺ | 22 |
| 100 MHz ⁺ | 40 |
| 250 MHz | 52 |

| Electrical Properties | |
|-----------------------|-----|
| H(Oe) | 1.7 |

Suppression beads are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is listed on our catalog drawing.

[Catalog Drawing](#)

Single turn impedance tests for 73 and 43 material beads are performed on the E4990A Impedance Analyzer. The 61 material beads are tested on the E4991A / HP4291B Impedance Analyzer. Beads are tested with the shortest practical wire length.



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