

EMI Suppression Beads (2643250202)



Part Number: 2643250202

43 SHIELD BEAD

Explanation of Part Numbers:

- Digits 1&2 = product class,
- 3&4 = material grade and
- last digit 1= not burnished, 2 = burnished and 4 = Parylene coated.
- Beads with a “1” as the last digit of the part number are not burnished. Parts that are burnished to break the sharp edges have a “2” as the last digit.
- Upon request beads can be supplied with a Parylene coating. The last digit of the Parylene coated part is a “4”. 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: 2.5 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A | 6.35 | ±0.15 | 0.25 | - |
| B | 2.95 | +0.45 | 0.125 | - |
| C | 25.4 | ±0.75 | 1 | - |

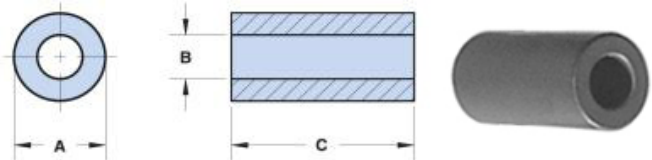


Chart Legend

+ 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 | 98 |
| 25 MHz ⁺ | 148 |
| 100 MHz ⁺ | 200 |
| 250 MHz | 223 |

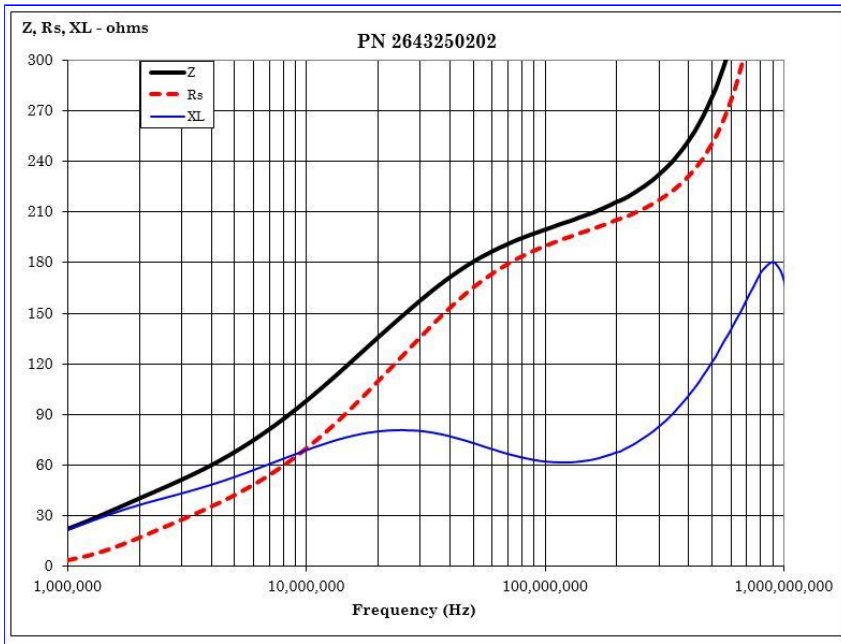
| Electrical Properties | |
|-----------------------|------|
| H(Oe) | 0.91 |

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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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