Fair-Rite Products Corp.
Your Signal Solution®

# EMI Suppression Beads (2643000501)

Part Number: 2643000501

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.**

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

Weight: 0.01 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 2 | -0.15 | 0.076 | _ |
| B | 1.05 | +0.10 | 0.043 | _ |
| C | 1.65 | -0.25 | 0.06 | _ |

**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.

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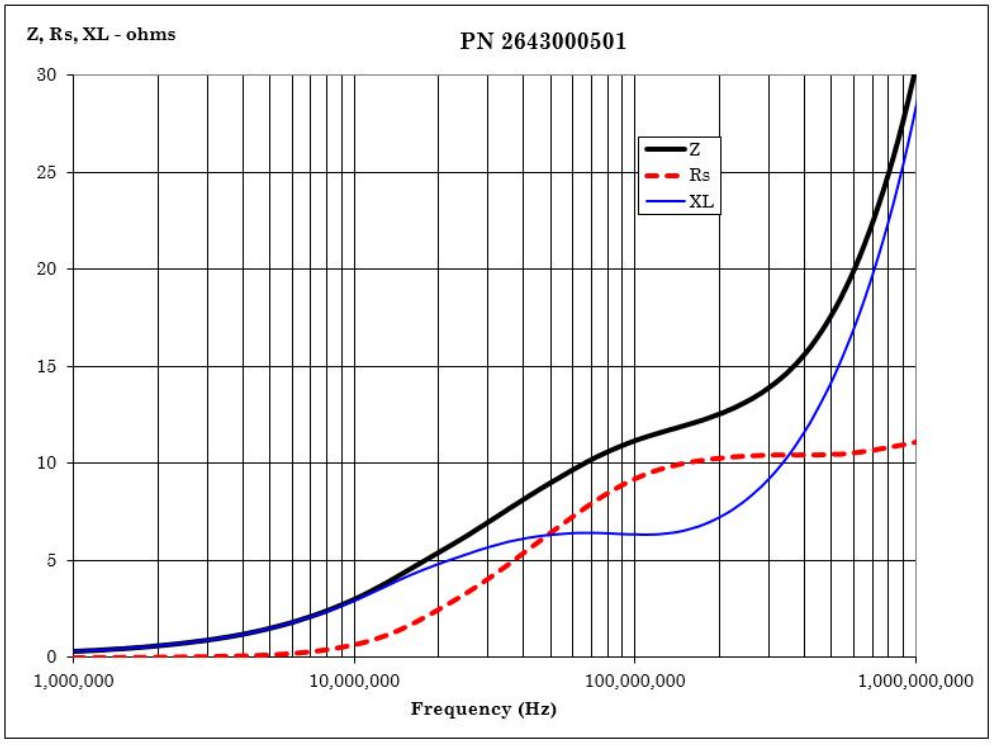
| Typical Impedance (Ω) | |
|---|---|
| 10 MHz | 5 |
| 25 MHz+ | 8 |
| 100 MHz+ | 16 |
| 250 MHz | 26 |

| Electrical Properties | |
|---|---|
| H(Oe) | 2.8 |

Suppression beads are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

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.

| Typical Impendance (Ω) | |
|---|---|
| 10 MHz | 6 |
| 25 MHz+ | 9 |
| 100 MHz+ | 22 |
| 250 MHz | 33 |




CSV Download

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