Fair-Rite Products Corp.
Your Signal Solution®

EMI Suppression Beads (2643250202)

RoHS Certificate of Compliance RoHS Material Declaration

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	_

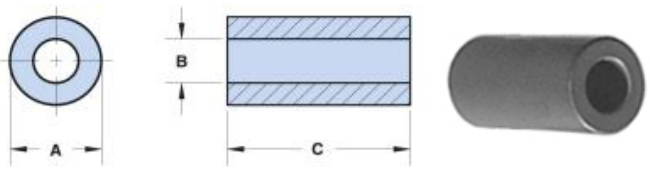

Chart Legend
+ Test frequency
• The column "H (Oe)" gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of “H” times the actual NI (ampere- turn) product. For the effect of the dc bias on the impedance 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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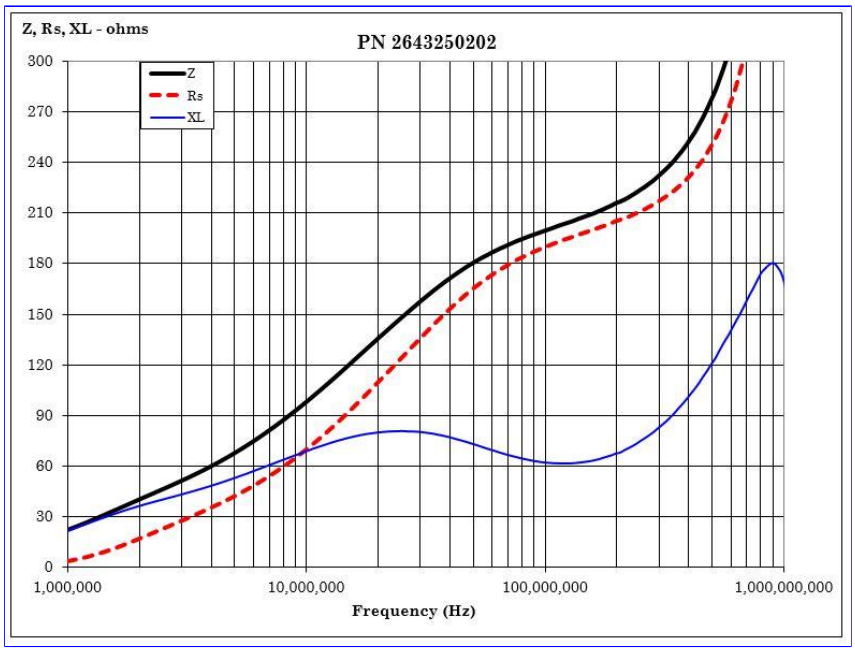
Suppression beads are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is listed on our catalog drawing.

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.



CSV Download

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