Fair-Rite Products Corp.
Your Signal Solution®

EMI Suppression Beads (2643020501)

Part Number: 2643020501

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: 0.02 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	1.65	±0.025	0.065	_
B	0.85	+0.10	0.035	_
C	3.68	-0.25	0.14	_

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	9.8
25 MHz+	16.5
100 MHz+	26.5
250 MHz	37

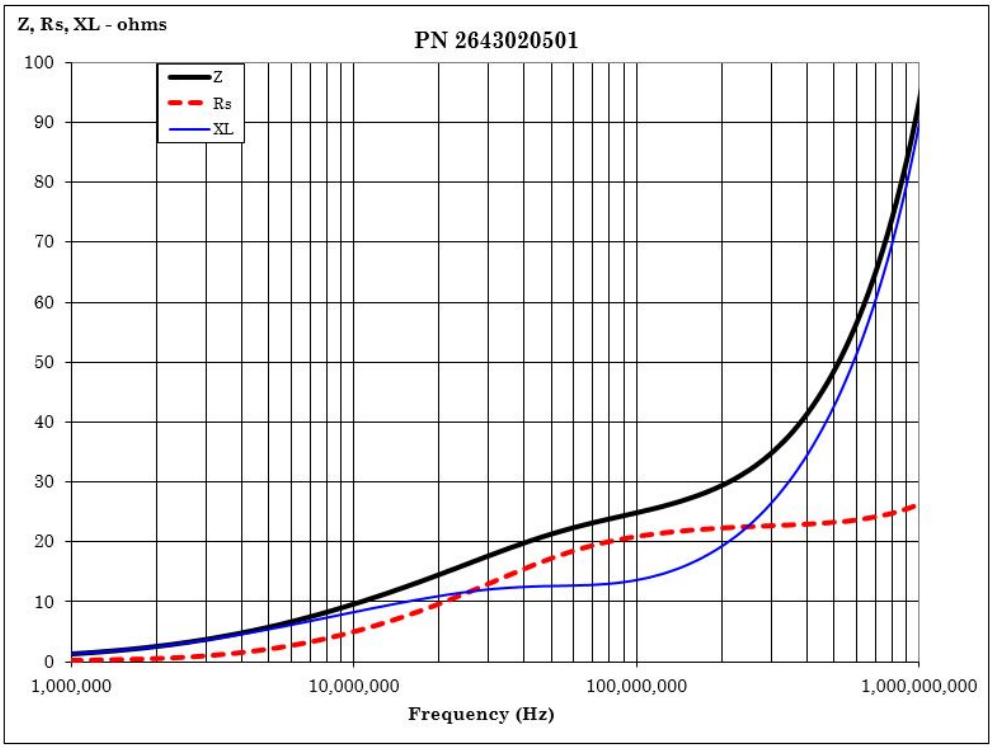
Electrical Properties	
H(Oe)	3.4

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%.

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.

Typical Impendance (Ω)	
10 MHz	12
25 MHz+	17
100 MHz+	31
250 MHz	47



CSV Download

Fair-Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288
888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair-rite.com • www.fair-rite.com