

# EMI Suppression Beads

## (2643021801)

Part Number: 2643021801

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: 1.01 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	5.1	±0.25	0.201	—
B	1.45	+0.25	0.062	—
C	11.1	±0.35	0.437	—

### 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 ( $\Omega$ )	
10 MHz	71
25 MHz <sup>+</sup>	107
100 MHz <sup>+</sup>	143
250 MHz	156

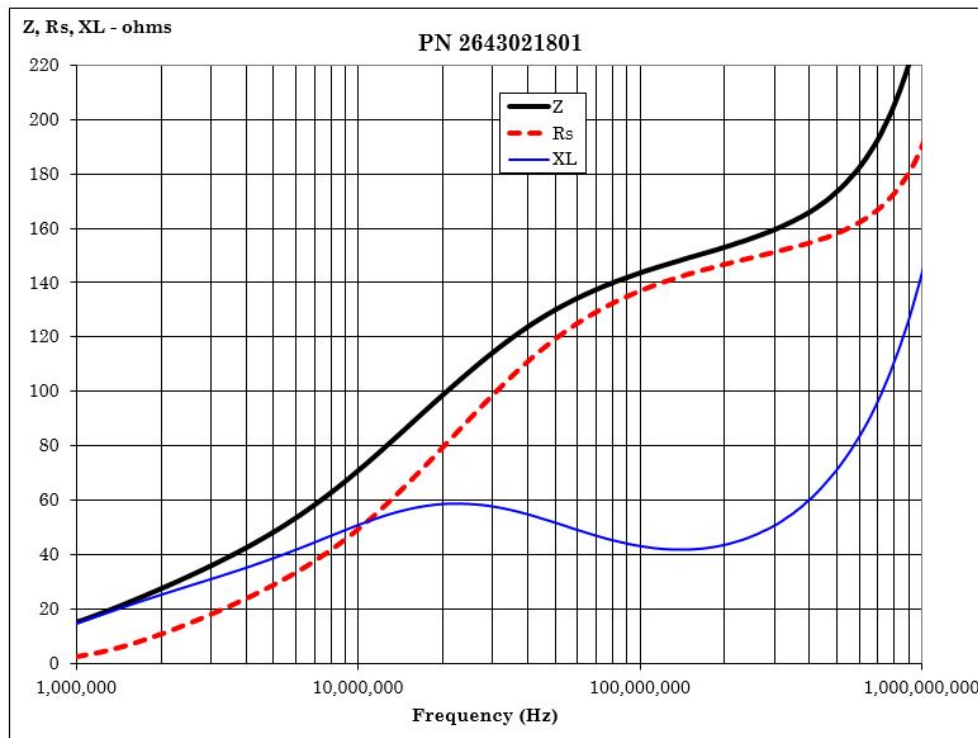
Electrical Properties	
H(Oe)	1.5

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 Impedance ( $\Omega$ )	
10 MHz	62
25 MHz <sup>+</sup>	96
100 MHz <sup>+</sup>	131
250 MHz	151



### [CSV Download](#)

