# EMI Suppression Beads (2643000701)



Part Number: 2643000701

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.

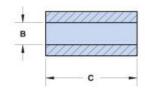
## Catalog Drawing 3D Model

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

Weight: 0.38 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	3.5	±0.20	0.138	_
В	1.3	±0.10	0.051	_
С	12.7	±0.35	0.5	







#### **Chart Legend**

- + Test frequency
- The column " $\dot{H}$  (Oe)" gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc  $\dot{H}$  field in the application is this value of " $\dot{H}$ " 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  $\Box$ How to choose Ferrite Components for EMI Suppression  $\Box$ .

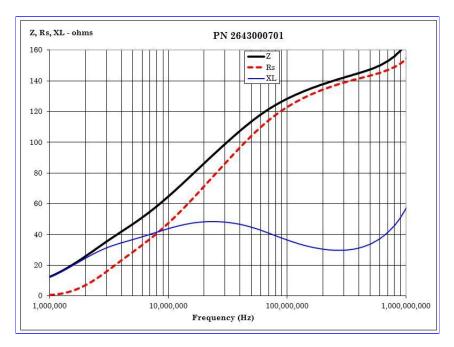
Typical Impedance	(Ω)
10 MHz	65
25 MHz <sup>+</sup>	93
100 MHz <sup>+</sup>	128
250 MHz	140

Electrical Properties				
H(Oe)	2			

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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