Fair-Rite Products Corp.
Your Signal Solution®

PC Beads (Through Hole)

Part Number: 2944778101

44 PC BEAD

Explanation of Part Numbers:
– Digits 1 & 2 = Product Class
– Digits 3 & 4 = Material Grade
– Last digit 1 = Standard Wire Length 2.4 mm (0.095″) Minimum, 2 = Wire Length 3.1 mm (0.122) Minimum

Multiple single turn or multi-turn printed circuit EMI suppression beads are available in two Fair-Rite materials. The broadband 44 material and in the high frequency 52 material grade.

Wires are oxygen free high conductivity copper with 100% matte tin plating over a nickel undercoating. Wires on top of the beads are covered with a layer of epoxy.

Recommended operating and storage temperature for the PC Beads is -55 °C to +125 °C.

Recommended Soldering Profile

Catalog Drawing
3D Model

PC Beads can be supplied with lower component heights “C”. Also, the wire length “F” can be modified to specific requirements.

Weight: 2.7 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	11.2	-0.50	0.431	_
B	5.75	-0.50	0.217	_
C	11.8	Max	0.464	Max
D	2.54	±0.10	0.1	_
E	2.54	±0.10	0.1	_
F	2.79	±0.25	0.110	_
G	0.65	_	0	22 AWG

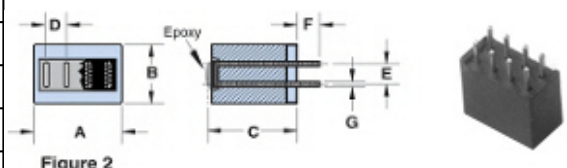


Figure 2

Chart Legend

+ Test frequency

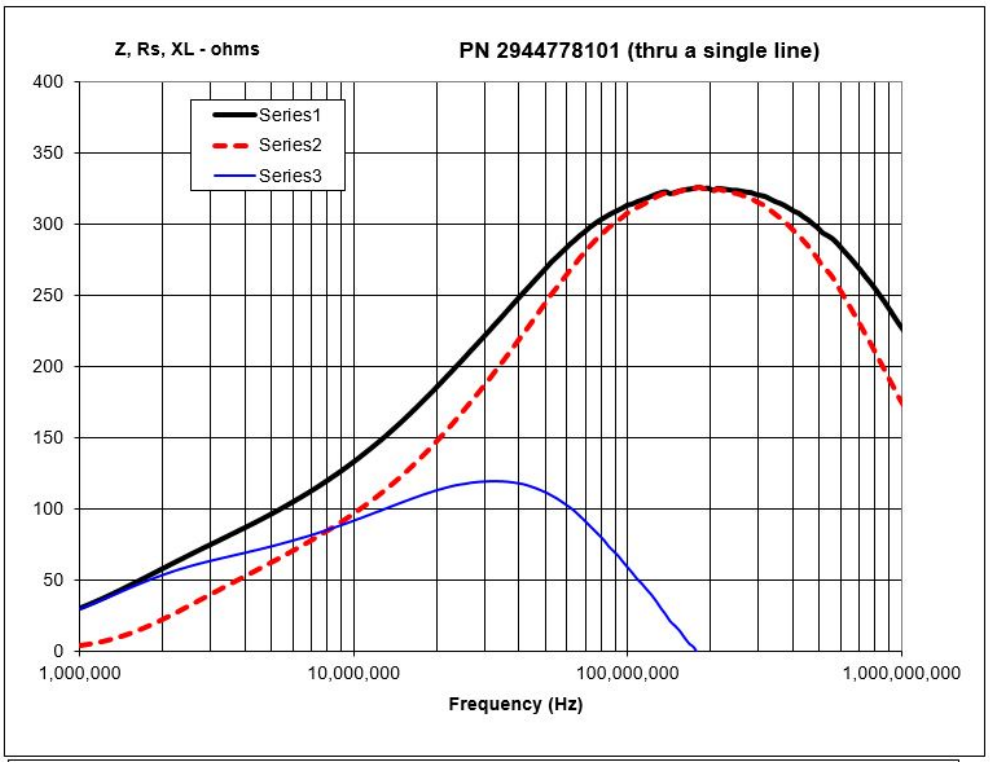
Typical Impedance (Ω)	
10 MHz	132
25 MHz+	205
100 MHz+	314
250 MHz	323

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

Catalog Drawing

The PC Beads in 44 material are measured on the E4990A Impedance Analyzer. The 52 PC Beads are tested for impedance on the E4991A / HP4291B Impedance Analyzer.

Typical Impendance (Ω)	
10 MHz	115
25 MHz+	188
100 MHz+	288
250 MHz	305



CSV Download