Fair-Rite Products Corp.
Your Signal Solution®

# PC Beads (Through Hole)

Part Number: 2944770301

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: 7.4 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 13.45 | ±0.25 | 0.53 | _ |
| B | 11.2 | -0.50 | 0.431 | _ |
| C | 11.8 | Max | 0.464 | Max |
| D | 2.54 | ±0.10 | 0.1 | _ |
| E | 7.6 | ±0.20 | 0.299 | _ |
| F | 2.79 ±0.25 | ±0.25 | 0.095 | Min |
| G | 0.65 | _ | 0 | 22 AWG |

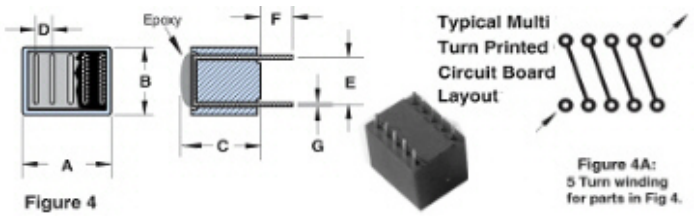


Figure 4

Figure 4A:
5 Turn winding for parts in Fig 4.

**Chart Legend**
+ Test frequency

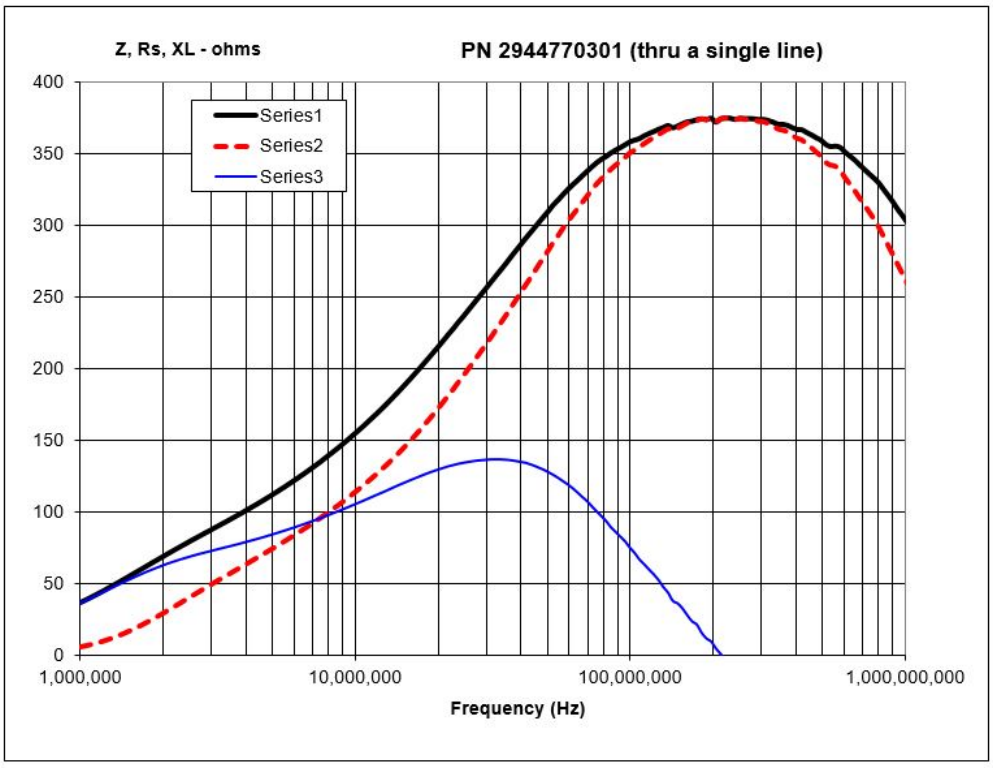
| Typical Impedance (Ω) | |
|---|---|
| 10 MHz | 155 |
| 25 MHz+ | 237 |
| 100 MHz+ | 358 |
| 250 MHz | 374 |

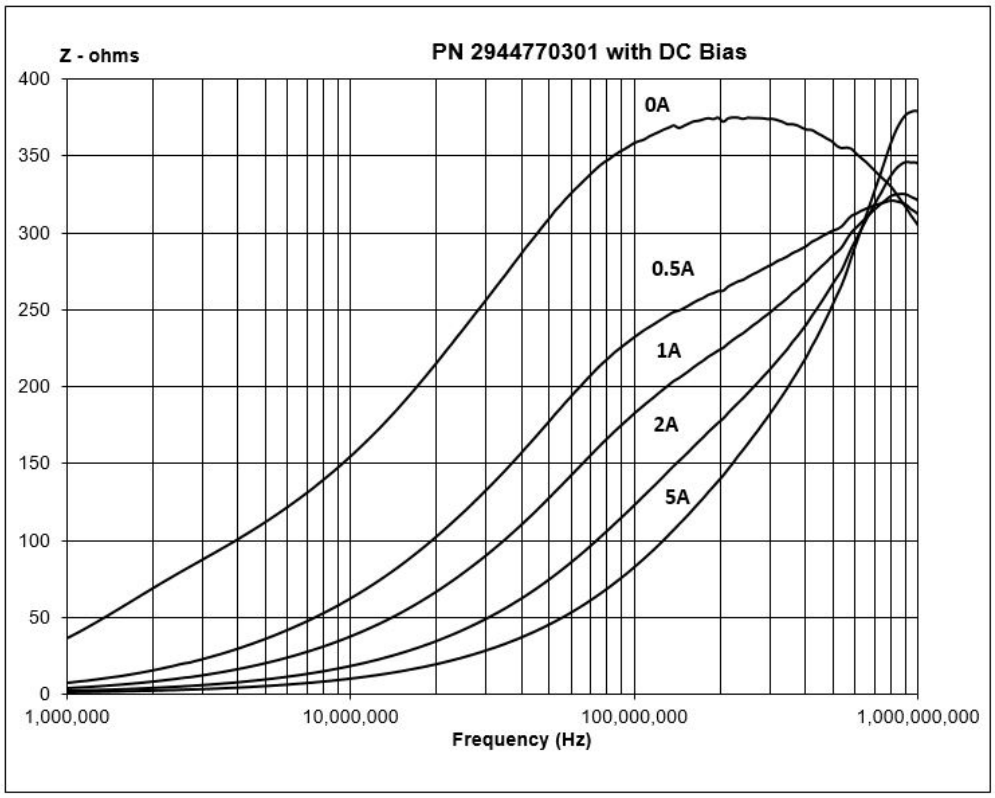
PC Beads are controlled for impedance only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

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 | 142 |
| 25 MHz+ | 219 |
| 100 MHz+ | 338 |
| 250 MHz | 335 |






CSV Download

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