

Part Number: 2952776101

52 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: 2.6 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A | 8 | -0.35 | 0.308 | — |
| B | 7.6 | -0.50 | 0.289 | — |
| 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 |

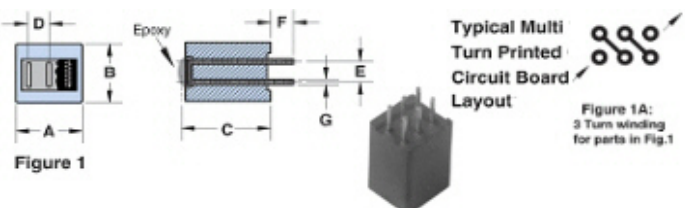


Chart Legend

+ Test frequency

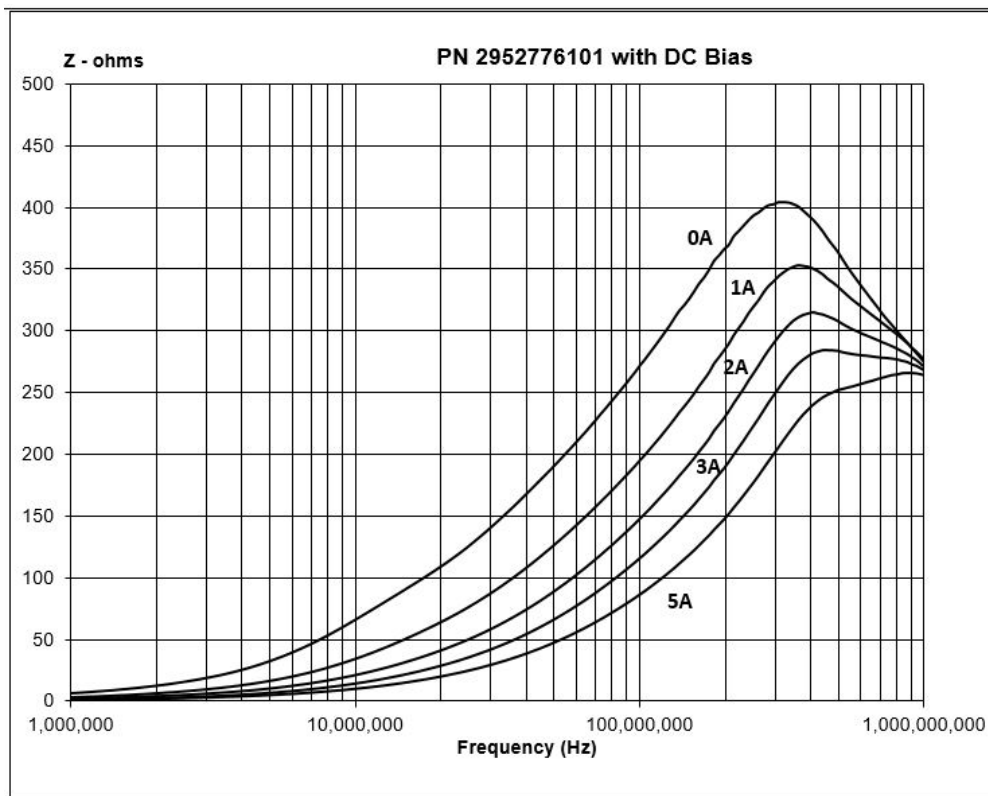
| Typical Impedance (Ω) | |
|--------------------------------|-----|
| 100 MHz | 272 |
| 250 MHz ⁺ | 393 |
| 500 MHz ⁺ | 363 |
| 1000 MHz | 273 |

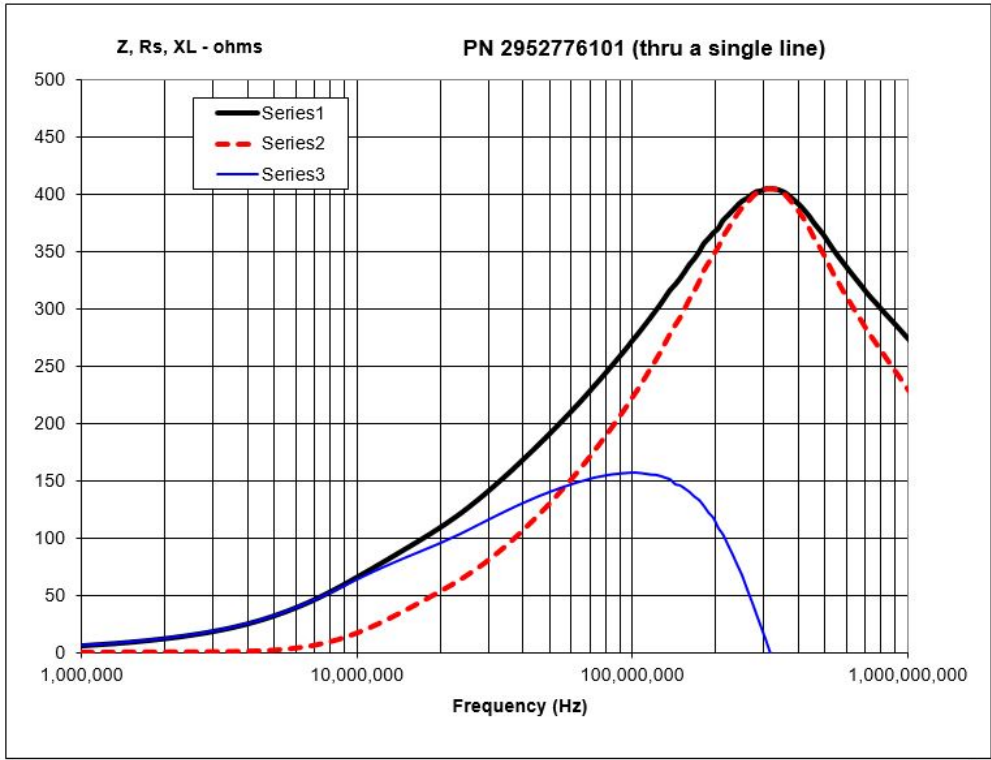
PC Beads are controlled for impedance only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

[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 Impedance (Ω) | |
|--------------------------------|-----|
| 100 MHz | 270 |
| 250 MHz ⁺ | 380 |
| 500 MHz ⁺ | 345 |
| 1000 MHz | 250 |





[CSV Download](#)

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