

Part Number: 2944776101

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.

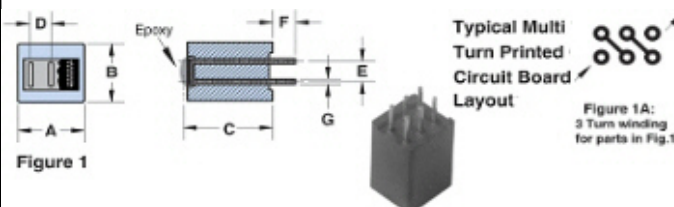
Recommended operating and storage temperature for the PC Beads is -55 °C to +125 °C.

## Recommended Soldering Profile

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   | 2.4  | ±0.25  | 0.110        | —          |
| G   | 0.65 | —      | 0            | 22 AWG     |



## **Chart Legend**

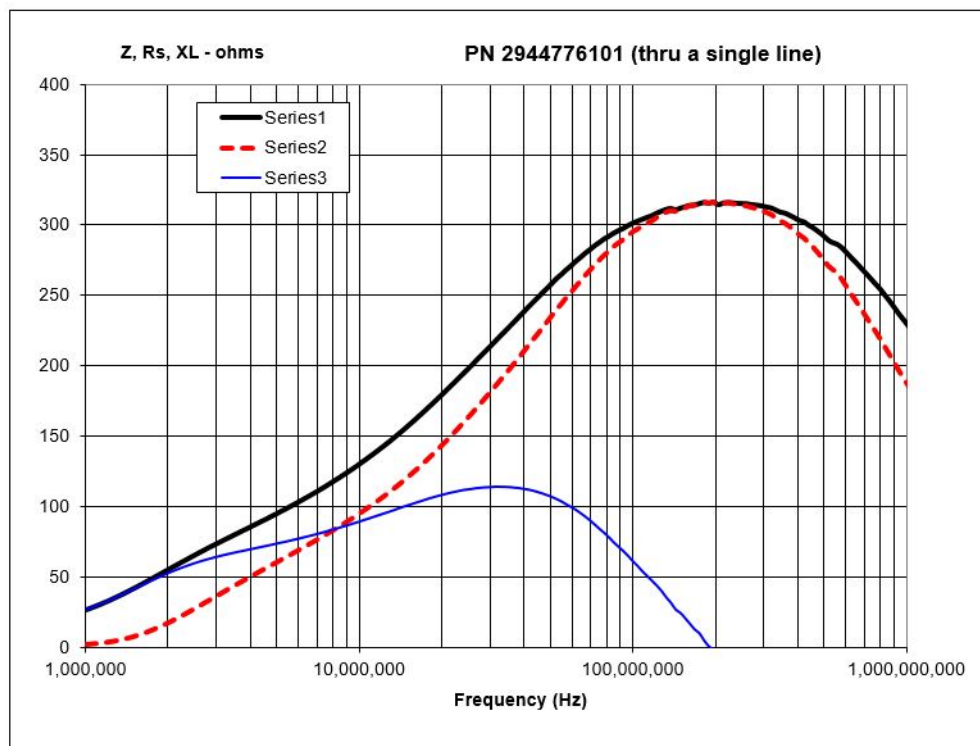
+ Test frequency

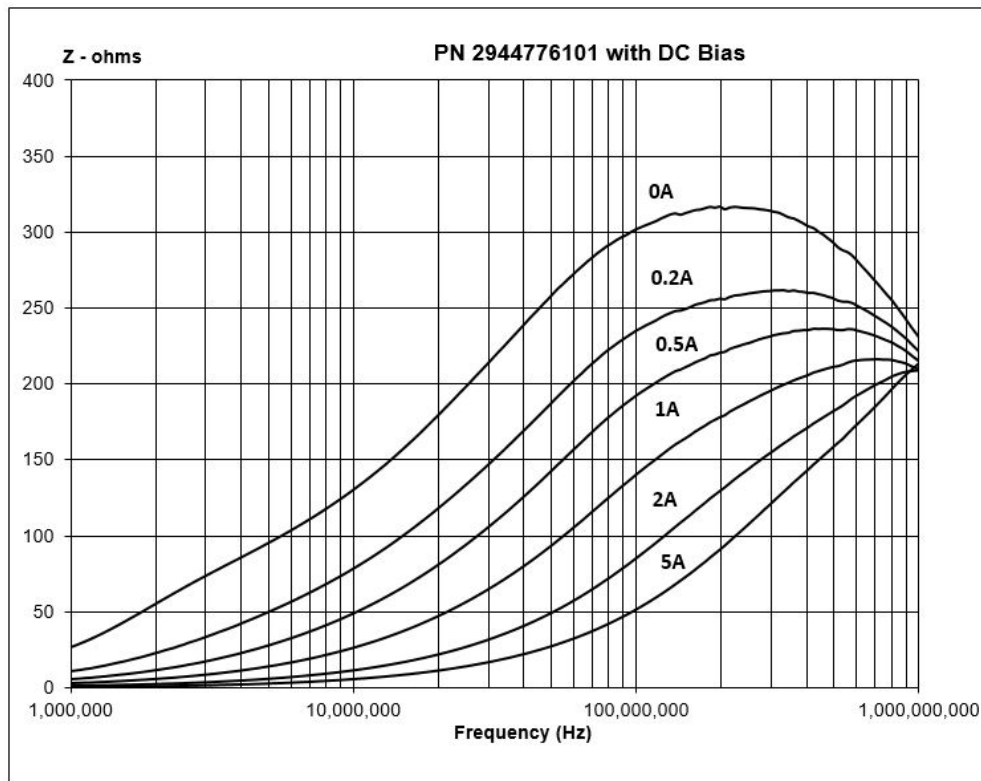
| Typical Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 130 |
| 25 MHz <sup>+</sup>            | 198 |
| 100 MHz <sup>+</sup>           | 302 |
| 250 MHz                        | 315 |

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%.

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 ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 115 |
| 25 MHz <sup>+</sup>            | 188 |
| 100 MHz <sup>+</sup>           | 288 |
| 250 MHz                        | 305 |





[CSV Download](#)

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