Fair-Rite Products Corp.
Your Signal Solution®

# Wound Beads (2944666681)

Part Number: 2944666681

44 WOUND BEAD

Explanation of Part Numbers:
– Digits 1 & 2 = Product Class
– Digits 3 & 4 = Material Grade
– Last digit 1 = Bulk Packed 4 = Taped and Reeled

**Six and eleven hole beads, in two NiZn materials, are available both as beads (product class 26) and wound with tinned copper wire in several winding configurations (product class 29).**

Wire used for winding is oxygen free high conductivity copper with 100% matte tin plating over a nickel undercoating.

Recommended storage temperature and operating temperature is -55 °C to 125 °C

Recommended Soldering Profile

Packaging Options:
– Parts with a 1 as the last digit of the part number are supplied bulk packed. Wound beads with part numbers 29–666631 and 29–666651 can be supplied radially taped and reeled per IEC 60286-1 and EIA 468-B standards. For these taped and reeled wound beads the last digit of the part number is a 4. Taped and reeled wound beads are supplied 500 pieces on a 13 reel.

**For any wound bead requirement not listed in here, please contact our customer service group for availability and pricing.**

Catalog Drawing
3D Model

Weight: 1.4 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 6 | ±0.25 | 0.236 | _ |
| B | 0.75 | +0.15 | 0.032 | _ |
| C | 10 | ±0.25 | 0.394 | _ |
| D | 3.51 | Ref | 0.138 | Ref |

| Winding Information | | | |
|---|---|---|---|
| Turns Tests | Wire Size | 1st Wire Length | 2nd Wire Length |
| 2 x 1½ | 0.53 24 AWG | 38.0 ±3.0 (1.496”) | 28.0 ±3.0 (1.102”) |

**Chart Legend**
+ Test frequency
•A ½ turn is defined as a single pass through a hole.

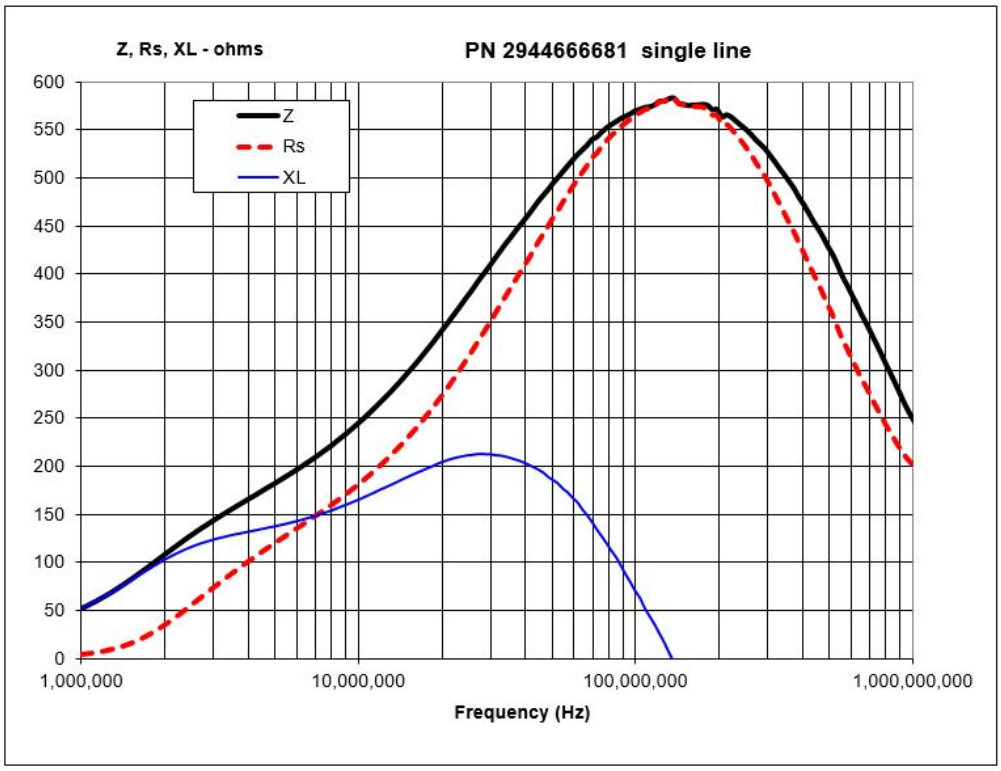
| Typical Impedance (Ω) | |
|---|---|
| 1 MHz | 52 |
| 10 MHz+ | 245 |
| 50 MHz+ | 495 |
| 100 MHz+ | 570 |
| 200 MHz | 565 |

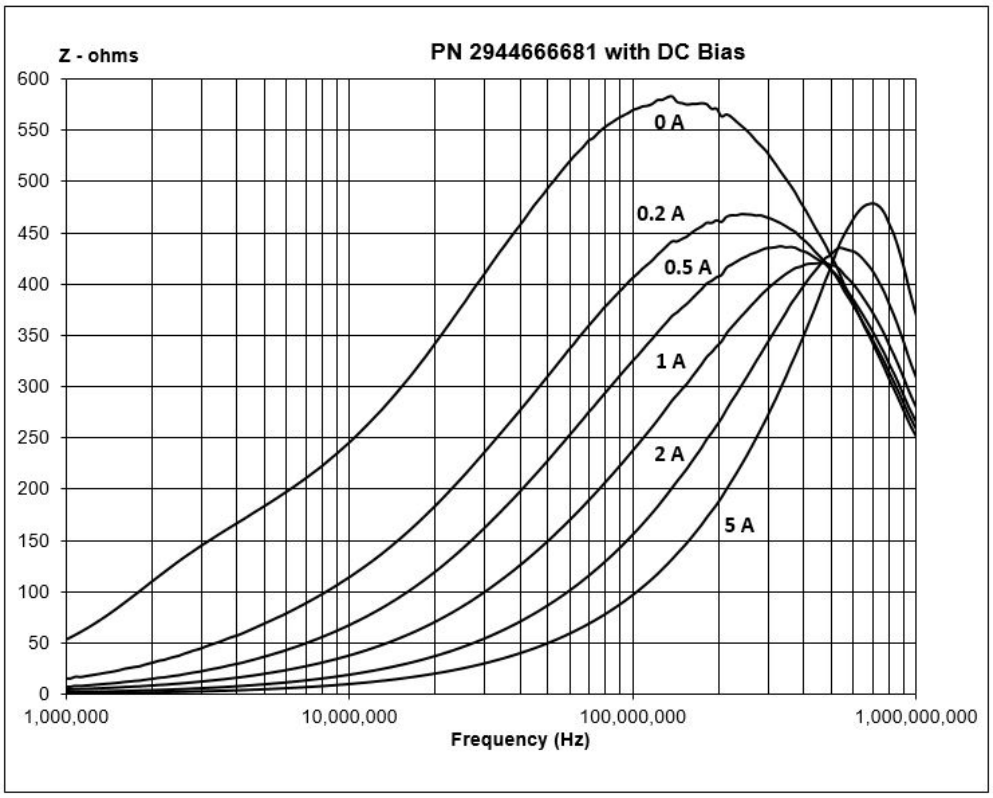
Beads are controlled for impedance limits only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

Catalog Drawing

The 44 material beads and wound beads are tested on the E4990A Impedance Meter. The 61 material parts on the E4991A / HP4291B Impedance Analyzer.

| Typical Impendance (Ω) | |
|---|---|
| 1 MHz | 45 |
| 10 MHz+ | 213 |
| 50 MHz+ | 400 |
| 100 MHz+ | 470 |
| 200 MHz | 380 |



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