Fair-Rite Products Corp.
Your Signal Solution®

# Multi-Aperture cores (2861000102)

Part Number: 2861000102

67 MULTI-APERTURE CORE

Explanation of Part Numbers:
– Digits 1 & 2 = Product Class
– Digits 3 & 4 = Material Grade
– Last digit 2 = Burnished

**Multi-aperture cores are used in suppression applications and in balun (balance-unbalance) and other broadband transformers. They are also employed in airbag designs to prevent accidental activation**.

All multi-aperture cores are supplied burnished.

Our “Multi-Aperture Core Kit” (part number 0199000036) is available for prototype evaluation.

**For any multi-aperture requirement not listed here, feel free to contact our customer service group for availability and pricing.**

Weight: 3.5 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 13.3 | ±0.60 | 0.524 | _ |
| B | 13.4 | ±0.30 | 0.528 | _ |
| C | 7.5 | ±0.35 | 0.295 | _ |
| E | 5.7 | ±0.25 | 0.224 | _ |
| H | 3.8 | ±0.25 | 0.15 | _ |

**Chart Legend**
+ Test frequency

| Typical Impedance (Ω) | |
|---|---|
| 100 MHz | 166 |
| 250 MHz$^{+}$ | 226 |

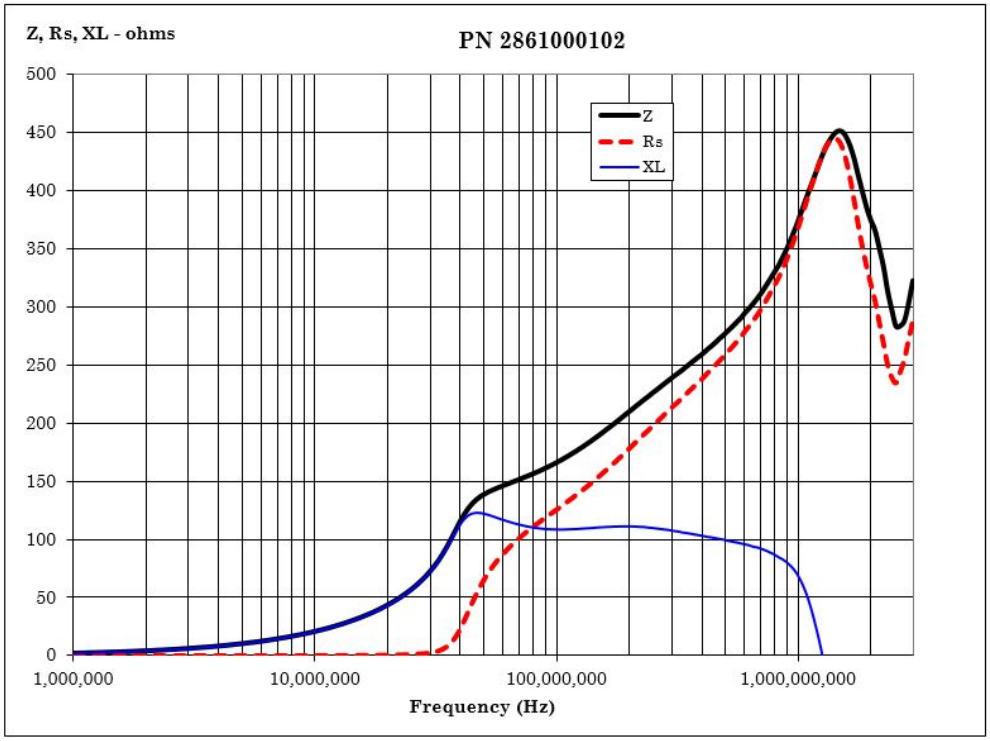
| Electrical Properties | |
|---|---|
| $A_L$(nH) | 300 Min |

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Multi-aperture cores in 73 and 43 materials are controlled for impedance only. The 61 NiZn material is controlled for both impedance and $A_L$ value. The high frequency 67 material is controlled for $A_L$ value. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

Multi-aperture cores in 73 and 43 material are measured for impedance on the E4990A Impedance Analyzer. The 61 and 67 multi-aperture cores are tested on the E4991A / HP4291B Impedance Analyzer. All impedance measurements are performed with a single turn to both holes, using the shortest practical wire length.

The 61 and 67 material multi-hole beads are tested for $A_L$ value. The test frequency is 10 kHz at < 10 gauss. The test winding is five turns wound through both holes.




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Fair-Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288
888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair-rite.com • www.fair-rite.com

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