Fair-Rite Products Corp.
Your Signal Solution®

# Multi- Aperture cores (2843002402)

Part Number: 2843002402

43 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.**

Catalog Drawing
3D Model

Weight: 0.5 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 7 | ±0.25 | 0.276 | _ |
| B | 6.2 | ±0.25 | 0.244 | _ |
| C | 4.2 | -0.25 | 0.16 | _ |
| E | 2.9 | ±0.10 | 0.114 | _ |
| H | 1.7 | +0.20 | 0.071 | _ |

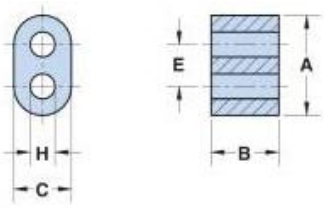


Figure 1

**Chart Legend**
+ Test frequency

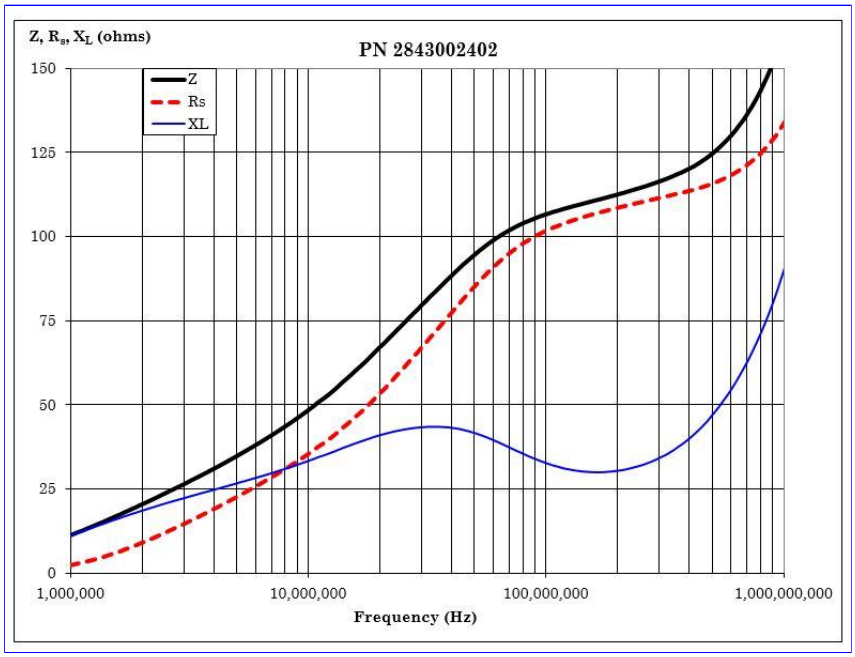
| Typical Impedance (Ω) | |
|---|---|
| 25 MHz | 74 |
| 100 MHz+ | 106 |

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 listed on our catalog drawing.

Catalog Drawing

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.




CSV Download

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