

## 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        | —          |

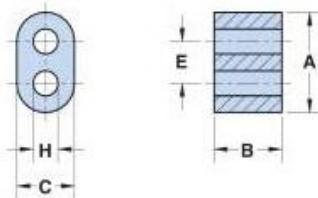


Figure 1

### Chart Legend

+ Test frequency

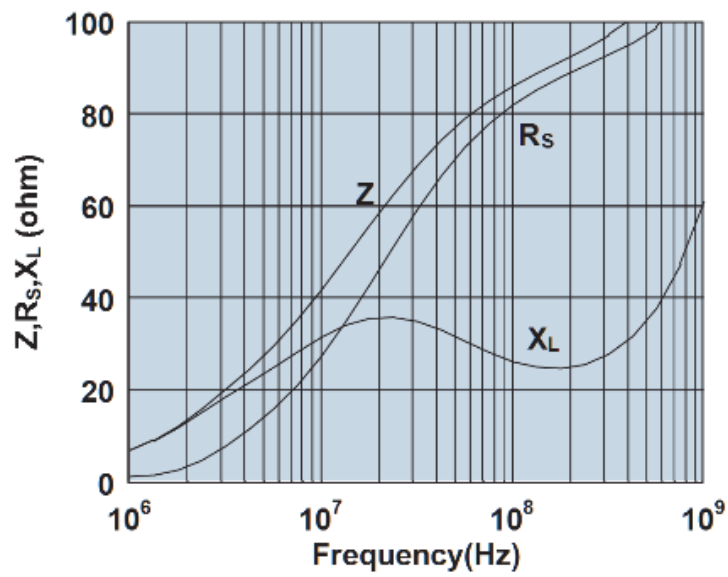
| Typical Impedance (Ω) |     |
|-----------------------|-----|
| 25 MHz                | 74  |
| 100 MHz <sup>+</sup>  | 100 |

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 4193A Vector Impedance Analyzer. The 61 and 67 multi- aperture cores are tested on the 4291A 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.

2843002402



Impedance, reactance, and resistance vs. frequency.