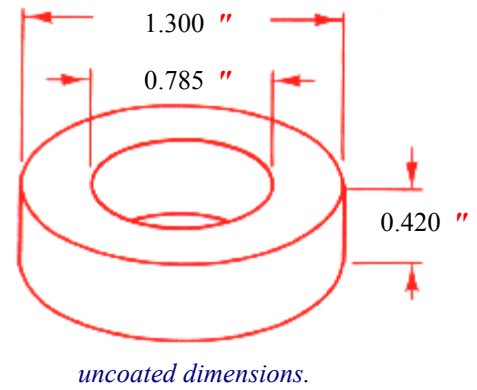


# Core Data Sheet

**Part Number: G56A - 96**

## Core Dimensions:

| Uncoated (tol. +/-0.25) |       | After coating |
|-------------------------|-------|---------------|
| OD (mm)                 | 33.02 | (max) 33.67   |
| ID (mm)                 | 19.94 | (min) 19.29   |
| HT (mm)                 | 10.67 | (max) 11.32   |



## Physical Characteristics:

|                                 |                                                              |                     |       |
|---------------------------------|--------------------------------------------------------------|---------------------|-------|
| Winding area (cm <sup>2</sup> ) | 2.97                                                         | Strength (N) typ.   | 472.0 |
| Surface area (cm <sup>2</sup> ) | 49.46                                                        | Weight (grams) typ. | 45.87 |
| Coating                         | Epoxy, 0.2 mm approx. per surface. Voltage breakdown 500Vac. |                     |       |
| Packing                         | Not available.                                               |                     |       |

## Material:

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Grade                     | 96                                                  |
| Initial Permeability (μi) | 147 tol +/- 12                                      |
| Description               | MPP - gas atomized 80 /20 nickel-iron alloy powder. |

## Electrical Data:

|                                                          |        |
|----------------------------------------------------------|--------|
| AL norm (nH)                                             | 150.00 |
| AL max. (nH)                                             | 162.00 |
| AL min. (nH)                                             | 138.00 |
| DC bias at 0.8μi (Oe) typ.                               | 22     |
| Power Losses (mW/cm <sup>3</sup> ) typ. 50kHz, 1000gauss | 400    |
| Total Losses (ohms/H/μi) typ. < 20gauss                  | 0.2    |

## Magnetic Dimensions:

|                       |        |
|-----------------------|--------|
| C1 (mm-1)             | 1.2335 |
| Le (mm)               | 79.8   |
| Ae (mm <sup>2</sup> ) | 64.7   |
| Ve (mm <sup>3</sup> ) | 5157.8 |

## Special Comments

- 1.
- 2.
- 3.

Note: the right to change specification data as required without notice is reserved.