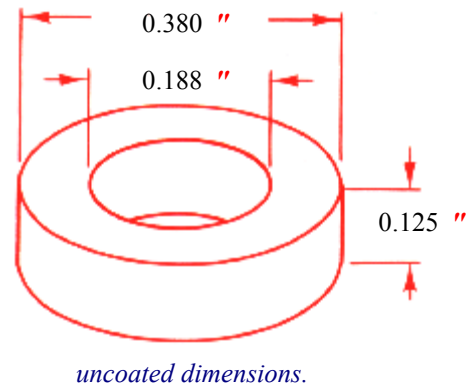


# Core Data Sheet

**Part Number: G51 - 93**

**Core Dimensions:**

| Uncoated (tol. +/-0.25) | After coating |       |
|-------------------------|---------------|-------|
| OD (mm) 9.65            | (max)         | 10.30 |
| ID (mm) 4.78            | (min)         | 4.13  |
| HT (mm) 3.18            | (max)         | 3.83  |



**Physical Characteristics:**

|                                 |   |                     |      |
|---------------------------------|---|---------------------|------|
| Winding area (cm <sup>2</sup> ) | 0.14  | Strength (N) typ.   | 54.8 |
| Surface area (cm <sup>2</sup> ) | 3.89  | Weight (grams) typ. | 1.26 |
| Coating                         | Epoxy, Dark Blue, 0.2 mm approx. per surface. Voltage breakdown 500Vac. |                     |      |
| Packing                         | Not available.  |                     |      |

**Material:**

|                           |   |         |   |
|---------------------------|---|---------|---|
| Grade                     | 93  |         |   |
| Initial Permeability (μi) | 60  | tol +/- | 5 |
| Description               | MPP - gas atomized 80 /20 nickel-iron alloy powder. |         |   |

**Electrical Data:**

|  |       |  |
|--|-------|--|
| AL norm (nH)   | 25.00 |  |
| AL max. (nH)   | 27.00 |  |
| AL min. (nH)   | 23.00 |  |
| DC bias at 0.8μi (Oe) typ.                               | 50    |  |
| Power Losses (mW/cm <sup>3</sup> ) typ. 50kHz, 1000gauss | 500   |  |
| Total Losses (ohms/H/μi) typ. < 20gauss                  | 1.5   |  |

**Magnetic Dimensions:**

|                       |        |
|-----------------------|--------|
| C1 (mm-1)             | 3.0066 |
| Le (mm)               | 20.9   |
| Ae (mm <sup>2</sup> ) | 7.0    |
| Ve (mm <sup>3</sup> ) | 145.3  |

**Special Comments**

- 1.
2. AL band is +/- 12% for DuraFlux
- 3.

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