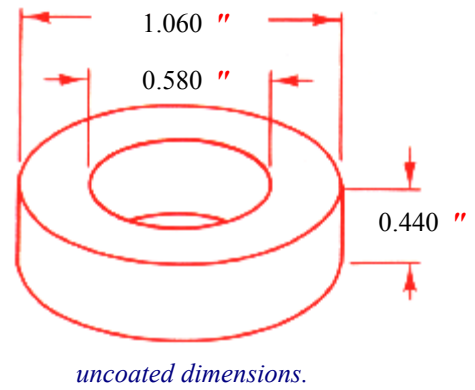


# Core Data Sheet

**Part Number:** G57-83

**Core Dimensions:**

| Uncoated (tol. +/-0.25) | After coating |       |
|-------------------------|---------------|-------|
| OD (mm) 26.92           | (max)         | 27.57 |
| ID (mm) 14.73           | (min)         | 14.08 |
| HT (mm) 11.18           | (max)         | 11.83 |



**Physical Characteristics:**

|                                 |  |                     |       |
|---------------------------------|--|---------------------|-------|
| Winding area (cm <sup>2</sup> ) | 1.59   | Strength (N) typ.   | 462.6 |
| Surface area (cm <sup>2</sup> ) | 33.83  | Weight (grams) typ. | 30.32 |
| Coating                         | Epoxy, Light Blue, 0.2 mm approx. per surface. Voltage breakdown 500Vac. |                     |       |
| Packing                         | Not available.   |                     |       |

**Material:**

|                           |  |         |   |
|---------------------------|--|---------|---|
| Grade                     | 83   |         |   |
| Initial Permeability (μi) | 60   | tol +/- | 5 |
| Description               | High Flux - gas atomized 80 /20 nickel-iron alloy powder |         |   |

**Electrical Data:**

|  |       |
|--|-------|
| AL norm (nH)   | 75.00 |
| AL max. (nH)   | 81.00 |
| AL min. (nH)   | 69.00 |
| DC bias at 0.8μi (Oe) typ.                               | 78    |
| Power Losses (mW/cm <sup>3</sup> ) typ. 50kHz, 1000gauss | 645   |
| Total Losses (ohms/H/μi) typ. < 20gauss                  | 0.0   |

**Magnetic Dimensions:**

|                       |        |
|-----------------------|--------|
| C1 (mm-1)             | 0.9904 |
| Le (mm)               | 61.6   |
| Ae (mm <sup>2</sup> ) | 62.2   |
| Ve (mm <sup>3</sup> ) | 3833.8 |

**Special Comments**

- 1.
- 2.
- 3.

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