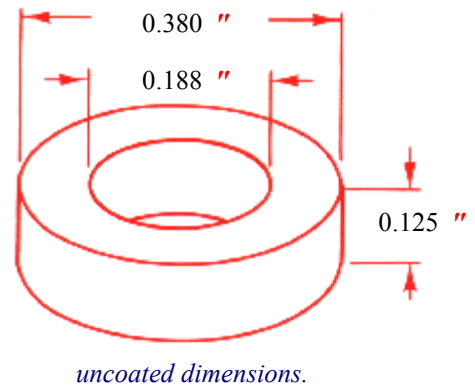


# Core Data Sheet

**Part Number: G51 - 85**

**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.	1.30
Coating	Epoxy, Light Blue, 0.2 mm approx. per surface. Voltage breakdown 500Vac.		
Packing	Not available.		

**Material:**

Grade	85		
Initial Permeability (μi)	125	tol +/-	10
Description	High Flux - gas atomized 80 /20 nickel-iron alloy powder		

**Electrical Data:**

AL norm (nH)	53.00
AL max. (nH)	57.24
AL min. (nH)	48.76
DC bias at 0.8μi (Oe) typ.	35
Power Losses (mW/cm <sup>3</sup> ) typ. 50kHz, 1000gauss	600
Total Losses (ohms/H/μi) typ. < 20gauss	0.0

**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.*