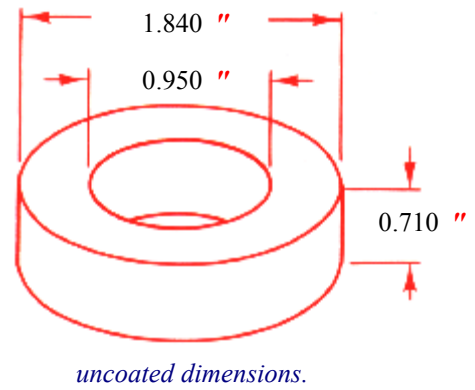


# Core Data Sheet

**Part Number:** G47-85

**Core Dimensions:**

Uncoated (tol. +/-0.25)	After coating	
OD (mm) 46.74	(max)	47.39
ID (mm) 24.13	(min)	23.48
HT (mm) 18.03	(max)	18.68



**Physical Characteristics:**

Winding area (cm <sup>2</sup> )	4.39	Strength (N) typ.	1410.1
Surface area (cm <sup>2</sup> )	97.24	Weight (grams) typ.	167.93
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)	281.00	
AL max. (nH)	303.48	
AL min. (nH)	258.52	
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)	0.5621
Le (mm)	103.6
Ae (mm <sup>2</sup> )	184.3
Ve (mm <sup>3</sup> )	19097.3

**Special Comments**

- 1.
- 2.
- 3.

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