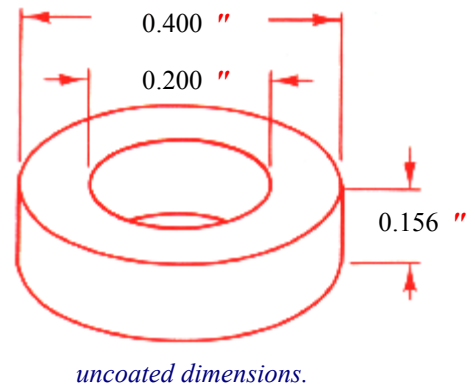


# Core Data Sheet

**Part Number: G50 - 83**

**Core Dimensions:**

Uncoated (tol. +/-0.25)	After coating	
OD (mm) 10.16	(max)	10.81
ID (mm) 5.08	(min)	4.43
HT (mm) 3.96	(max)	4.61



**Physical Characteristics:**

Winding area (cm <sup>2</sup> )	0.16	Strength (N) typ.	71.2
Surface area (cm <sup>2</sup> )	4.55	Weight (grams) typ.	1.64
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)	32.00
AL max. (nH)	34.56
AL min. (nH)	29.44
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)	2.4008
Le (mm)	22.1
Ae (mm <sup>2</sup> )	9.2
Ve (mm <sup>3</sup> )	203.9

**Special Comments**

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

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