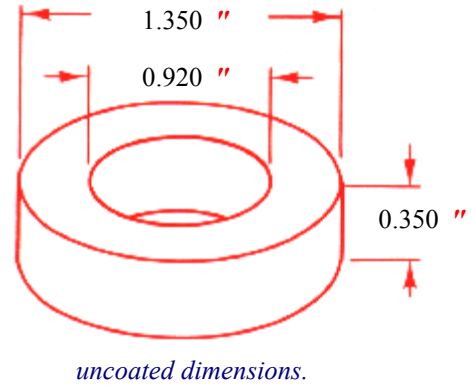


# Core Data Sheet

**Part Number: G55- 83**

**Core Dimensions:**

Uncoated (tol. +/-0.25)		After coating	
OD (mm)	34.29	(max)	34.94
ID (mm)	23.37	(min)	22.72
HT (mm)	8.89	(max)	9.54



**Physical Characteristics:**

Winding area (cm <sup>2</sup> )	4.11	Strength (N) typ.	334.1
Surface area (cm <sup>2</sup> )	53.85	Weight (grams) typ.	29.90
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)	38.00		
AL max. (nH)	41.04		
AL min. (nH)	34.96		
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)	1.9287
Le (mm)	88.4
Ae (mm <sup>2</sup> )	45.8
Ve (mm <sup>3</sup> )	4050.9

**Special Comments**

- 1.
- 2.
- 3.

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