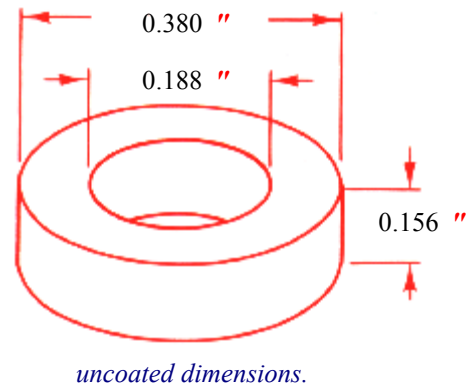


# Core Data Sheet

**Part Number: G51A-83**

**Core Dimensions:**

Uncoated (tol. +/-0.25)		After coating	
OD (mm)	9.65	(max)	10.30
ID (mm)	4.78	(min)	4.13
HT (mm)	3.96	(max)	4.61



**Physical Characteristics:**

Winding area (cm <sup>2</sup> )	0.14	Strength (N) typ.	68.2
Surface area (cm <sup>2</sup> )	4.16	Weight (grams) typ.	1.49
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)	2.3820
Le (mm)	20.9
Ae (mm <sup>2</sup> )	8.8
Ve (mm <sup>3</sup> )	183.5

**Special Comments**

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

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