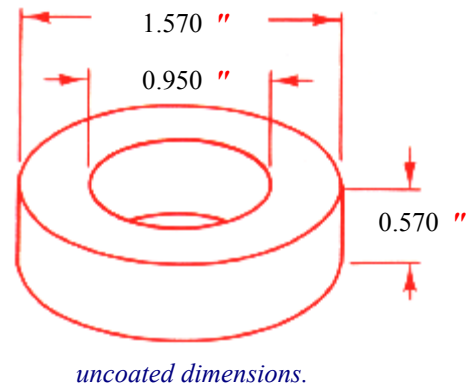


# Core Data Sheet

**Part Number: G48-83**

**Core Dimensions:**

Uncoated (tol. +/-0.25)	After coating	
OD (mm) 39.88	(max)	40.53
ID (mm) 24.13	(min)	23.48
HT (mm) 14.48	(max)	15.13



**Physical Characteristics:**

Winding area (cm <sup>2</sup> )	4.39	Strength (N) typ.	784.0
Surface area (cm <sup>2</sup> )	74.54	Weight (grams) typ.	77.97
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)	81.00		
AL max. (nH)	87.48		
AL min. (nH)	74.52		
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)	0.9057
Le (mm)	96.4
Ae (mm <sup>2</sup> )	106.5
Ve (mm <sup>3</sup> )	10268.9

**Special Comments**

- 1.
- 2.
- 3.

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