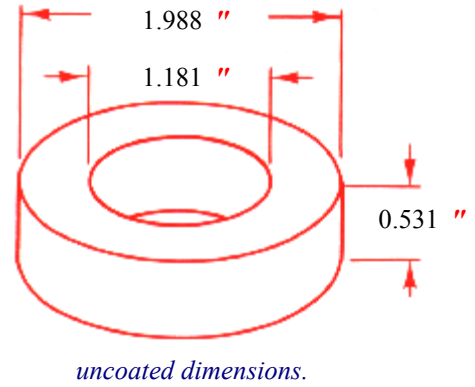


# Core Data Sheet

**Part Number:** G1A-86

**Core Dimensions:**

Uncoated (tol. +/-0.25)		After coating	
OD (mm)	50.50	(max)	51.15
ID (mm)	30.00	(min)	29.35
HT (mm)	13.50	(max)	14.15



**Physical Characteristics:**

Winding area (cm <sup>2</sup> )	6.83	Strength (N) typ.	941.1
Surface area (cm <sup>2</sup> )	109.59	Weight (grams) typ.	131.25
Coating	Epoxy, Light Blue, 0.2 mm approx. per surface. Voltage breakdown 500Vac.		
Packing	Not available.		

**Material:**

Grade	86		
Initial Permeability (μi)	147	tol +/-	12
Description	High Flux - gas atomized 80 /20 nickel-iron alloy powder		

**Electrical Data:**

AL norm (nH)	179.00		
AL max. (nH)	193.32		
AL min. (nH)	164.68		
DC bias at 0.8μi (Oe) typ.	24		
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)	0.9586
Le (mm)	120.9
Ae (mm <sup>2</sup> )	126.1
Ve (mm <sup>3</sup> )	15250.8

**Special Comments**

- 1.
- 2.
3. Four coatings per side, approx 0.5mm. Breakdown > 2KV

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

