

Toroids (5977003801)



Part Number: 5977003801

77 TOROID

Explanation of Part Numbers:

- Digits 1 & 2 = Product Class
- Digits 3 & 4 = Material Grade
- 9th digit 1 = Parylene Coating, 2 = Thermo- Set Plastic Coating

A ring configuration provides the ultimate utilization of the intrinsic ferrite material properties. Toroidal cores are used in a wide variety of applications such as power input filters, ground- fault interrupters, common- mode filters and in pulse and broadband transformers.

□All toroidal cores are supplied burnished to break sharp edges.

Coating Options:

- Toroids with an outside diameter of 9.5 mm (0.375") or smaller can be supplied Parylene C coated. The Parylene coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.038 mm (0.0015"). The ninth digit of a Parylene coated toroid part number is a "1". See reference tables for the material characteristics of Parylene C. Parylene C coating is RoHS compliant.
- Toroids with an outside diameter of 9.5 mm (0.375") or larger can be supplied with a uniform coating of thermo- set plastic coating. This coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.5 mm (0.020"). The 9th digit of the thermo- set plastic coated toroid part number is a "2". Thermo- set plastic coating is RoHS compliant.
- Thermo- set plastic coated parts can withstand a minimum breakdown voltage of 1000 Vrms, uniformly applied across the "C" dimension of the toroid.

□For any toroidal core requirement not listed in the catalog, please contact our customer service department for availability and pricing.

The □C□ dimension may be modified to suit specific applications.

Weight: 106 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	61	±1.30	2.4	-
B	35.55	±0.85	1.4	-
C	12.7	±0.50	0.5	-



Chart Legend			
$\Sigma l / A$: Core Constant, Effective Core Volume	l_c : Effective Path Length,	A_c : Effective Cross- Sectional Area,	V_c :
A_L : Inductance Factor			

Electrical Properties	
A_L (nH)	2950 ±25%
A_e (cm ²)	1.58
$\Sigma l / A$ (cm ⁻¹)	9.2
l_c (cm)	14.5
V_c (cm ³)	22.8

Toroids are tested for A_L values at 10 kHz.

Fair- Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288

888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair-rite.com • www.fair-rite.com