## Toroids (5977005101)



Part Number: 5977005101

77 TOROID

## **Explanation of Part Numbers:**

- Digits 1 & 2 = Product Class
- Digits 3 & 4 = Material Grade
- $\Box$  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  $\Box C\Box$  dimension may be modified to suit specific applications.

## Weight: 2.8 (g)

Dim	mm	mm toi	nominai inch	inch misc.		
A	16	±0.40	0.63			
В	9.6	±0.30	0.378			
C	4.75	-0.25	0.182	_	Chart I and I	
	ctive Co	re Constant, ore Volume ance Factor		ve Path Length,	Chart Legend A <sub>e</sub> : Effective Cross- Sectional Area,	<b>V</b> <sub>e</sub> :

Electrical Properties				
$A_L(nH)$	1015 ±25%			
Ae(cm <sup>2</sup> )	0.145			
$\Sigma l/A(cm^{-1})$	26.6			
l <sub>e</sub> (cm)	3.85			
$V_a(cm^3)$	0.56			

Toroids are tested for A<sub>1</sub> 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