## Toroids (5977003801)



Part Number: 5977003801

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:**

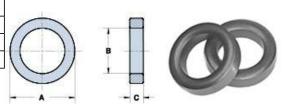
- □□ Toroids with an outside diameter of 9.5 mm (0.375") or smaller can be supplied Parylene C coated. The Parylene coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.038 mm (0.0015"). The ninth digit of a Parylene coated toroid part number is a "1". See reference 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: 106 (g)

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



**Chart Legend** 

 $\Sigma I/A$ : Core Constant,  $I_e$ : Effective Path Length,  $A_e$ : Effective Cross-Sectional Area,  $V_e$ :

Effective Core Volume

🗛 : Inductance Factor 🖼

Electrical Properties				
$A_L(nH)$	2950 ±25%			
Ae(cm <sup>2</sup> )	1.58			
$\Sigma l/A(cm^{-1})$	9.2			
l <sub>e</sub> (cm)	14.5			
$V_c(cm^3)$	22.8			

Toroids are tested for A<sub>1</sub> values at 10 kHz.

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