## Toroids (5943000201)



Part Number: 5943000201

43 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:**

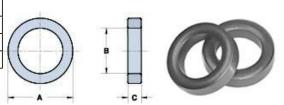
- □ □ − Toroids with an outside diameter of 9.5 mm (0.375") or smaller can be supplied Parylene C coated. The Parylene coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.038 mm (0.0015"). The ninth digit of a Parylene coated toroid part number is a "1". See 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: 0.83 (g)

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Dim	mm	mm tol	nominal inch	inch misc.		
A	9.5	±0.20	0.375	_		
В	4.75	±0.15	0.187	_		
С	3.3	-0.25	0.125			



**Chart Legend** 

 $\Sigma I/A$ : Core Constant, 1 : Effective Path Length, A<sub>c</sub>: Effective Cross- Sectional Area, V. :

Effective Core Volume

$\Lambda_{_{ m L}}$	:	Inductance Factor	(1-)

Electrical Properties			
$A_L(nH)$	350 ±20%		
Ae(cm <sup>2</sup> )	0.072		
$\Sigma l/A(cm^{-1})$	28.6		
l <sub>e</sub> (cm)	2.07		
$V_e(cm^3)$	0.15		

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

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