Fair-Rite Products Corp.

Your Signal Solution®

## Toroids (5943001801)



Part Number: 5943001801

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.

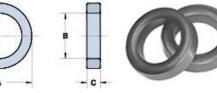
 $\Box$  - Toroids with an outside diameter of 9.5 mm (0.375") or larger can be supplied with a uniform coating of thermo- set plastic coating. This coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.5 mm (0.020"). The 9th digit of the thermo- set plastic coated toroid part number is a "2". Thermo- set plastic coating is RoHS compliant.  $\Box$  – 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: 7.2 (g)

Dim	mm	mm tol	nominal inch	inch misc.	
А	22.1	±0.40	0.87		
В	13.7	±0.30	0.54		(())
С	6.35	±0.25	0.25		
-	1				



**Chart Legend** 

 $\Sigma l/A$  : Core Constant, l<sub>e</sub> : Effective Path Length, Effective Core Volume

A. : Effective Cross- Sectional Area,

V. :

: Inductance Factor (H) А,

Electrical Properties					
A <sub>L</sub> (nH)	$485\pm\!20\%$				
$Ae(cm^2)$	0.262				
$\Sigma l / A(cm^{-1})$	20.7				
l <sub>e</sub> (cm)	5.4				
$V_{e}(cm^{3})$	1.42				

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

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