Fair-Rite Products Corp.

Your Signal Solution®

## Toroids (5943002701)



Part Number: 5943002701

43 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.

Catalog Drawing 3D Model

The C dimension may be modified to suit specific applications.

<u>Weight:</u> 33 (g)

Dim	mm	mm tol	nominal inch	inch misc.			
А	35.55	±0.75	1.4	_			
В	23	±0.55	0.906	_	(( ))		
С	12.7	±0.50	0.5	_		в	
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## **Chart Legend**

 $\Sigma l/A$ : Core Constant,  $l_e$ : Effective Path Length,  $A_e$ : Effective Core Volume A<sub>1</sub>: Inductance Factor

 $A_e$ : Effective Cross- Sectional Area,  $V_e$ :

Electrical Properties				
A <sub>L</sub> (nH)	$885\pm\!\!20\%$			
$Ae(cm^2)$	0.78			
$\Sigma l / A(cm^{-1})$	11.4			
l <sub>e</sub> (cm)	8.9			
$V_e(cm^3)$	7			

Toroids are tested for  $A_{_{\rm L}}$  values at 10 kHz.

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