Fair-Rite Products Corp.

Your Signal Solution®

Toroids (5943000601)



Part Number: 5943000601

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: 64 (g)

Dim	mm	mm tol	nominal inch	inch misc.	1.152
А	21	±0.35	0.825	_	
В	13.2	±0.30	0.52	_	$\left(\left(\right) \right)$
С	6.35	±0.25	0.25	_	
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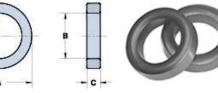


Chart Legend

 $\Sigma l/A$: Core Constant, l_e : Effective Path Length, Effective Core Volume

A. : Effective Cross- Sectional Area,

V. :

: Inductance Factor (H) A,

Electrical Properties					
A _L (nH)	$470\pm\!\!20\%$				
$Ae(cm^2)$	0.243				
$\Sigma l / A(cm^{-1})$	21.3				
l _e (cm)	5.2				
$V_{e}(cm^{3})$	1.26				

Toroids are tested for A₁ values at 10 kHz.

	Fair	- Rite Products Co	rp.	One Commercia	ıl Rov	v, Wallkill, New York 125	89-028	38
888-324-7748		845-895-2055		Fax: 845-895-2629		ferrites@fair- rite.com		www.fair- rite.com