Fair-Rite Products Corp.

Your Signal Solution®

Toroids (5943001001)



Part Number: 5943001001

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.

Weight:	13	(g)

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mm	mm tol	nominal inch	inch misc.			
29	±0.65	1.142	_			E
19	±0.50	0.748	_	$\left(\left(\right) \right)$		
7.5	±0.25	0.295	_			
		- 1			' 🗖	
	mm 29 19 7 5	$\begin{array}{c cccc} mm & mm \ tol \\ 29 & \pm 0.65 \\ 19 & \pm 0.50 \end{array}$	mm mm tol nominal inch 29 ± 0.65 1.142 19 ± 0.50 0.748	mmmm tolnominal inchinch misc.29 ± 0.65 1.142 19 ± 0.50 0.748	mmmm tolnominal inchinch misc. 29 ± 0.65 1.142 19 ± 0.50 0.748	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Chart Legend

 $\Sigma l/A$: Core Constant, l_e : Effective Path Length, A_e Effective Core Volume A_r : Inductance Factor

 A_e : Effective Cross- Sectional Area, V_e :

- 0 -

Electrical Properties		
A _L (nH)	$510\pm20\%$	
$Ae(cm^2)$	0.37	
$\Sigma l / A(cm^{-1})$	19.8	
l _e (cm)	7.3	
$V_{e}(cm^{3})$	2.7	

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

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