Fair-Rite Products Corp.

Your Signal Solution®

## Toroids (5977001201)



Part Number: 5977001201

77 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	<u>t:</u> 26 (g)					
Dim	mm	mm tol	nominal inch	inch misc.		
А	29	±0.65	1.142			
В	19	±0.50	0.748			
С	13.85	±0.30	0.545			
					Chart Legend	
$\Sigma l/A$	: Cor	e Constant,	l <sub>e</sub> : Effect	tive Path Length,	A <sub>e</sub> : Effective Cross- Sectional Area,	V <sub>e</sub> :
Effe	ctive Co	re Volume				
	000000					
A <sub>1</sub> :	Inducta	ance Factor				
L ·						
<u> </u>						
Electri	cal Prop	erties				
A, (nH	) 252	0 ±25%				
Ae(cm		3				
	2m <sup>-1</sup> ) 10.7	7				
l <sub>e</sub> (cm)	7.3					
V <sub>e</sub> (cm <sup>2</sup>	) 5					

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

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