Fair-Rite Products Corp.

Your Signal Solution®

Toroids (5977000301)



Part Number: 5977000301

77 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:

 $\Box \Box$ – 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: 2 (g)

Dim	mm	mm tol	nominal inch	inch misc.	
А	12.7	±0.25	0.5	_	
В	7.15	±0.20	0.281		$\left(\left(\right) \right)$
С	4.9	-0.25	0.188		

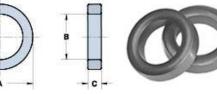


Chart Legend

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

A_e : Effective Cross- Sectional Area,

V. :

Effective Core Volume A_t : Inductance Factor

Electrical Properties						
A _L (nH)	1180 ±25%					
$Ae(cm^2)$	0.129					
$\Sigma l / A(cm^{-1})$	22.9					
l _e (cm)	2.95					
$V_{e}(cm^{3})$	0.38					

Toroids are tested for A₁ values at 10 kHz.

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