Toroids (5977001901)



Part Number: 5977001901

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.
- □ 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.

The $\Box C\Box$ dimension may be modified to suit specific applications.

Weight: 4.7 (g)

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Dim	mm	mm tol	nominal inch	inch misc.	
A	12.7	±0.25	0.5	_	
В	7.9	±0.20	0.312	_	
C	12.7	±0.35	0.5	_	

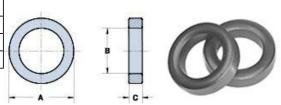


Chart Legend

 $\Sigma I/A$: Core Constant, I_e : Effective Path Length, A_e : Effective Cross-Sectional Area, V_e :

Effective Core Volume

A, : Inductance Factor

Electrical P	Electrical Properties		
$A_L(nH)$	2595 ±25%		
Ae(cm ²)	0.299		
$\Sigma l/A(cm^{-1})$	10.4		
l _e (cm)	3.12		
$V_e(cm^3)$	0.93		

Toroids are tested for A₁ values at 10 kHz.

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