

# Toroids (5978018601)



Part Number: 5978018601

78 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: 90 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	43.6	±1.00	1.717	—
B	23.1	±0.50	0.909	—
C	18	±0.50	0.709	—



**Chart Legend**  
 $\Sigma l / A$  : Core Constant,  $l_e$  : Effective Path Length,  $A_e$  : Effective Cross- Sectional Area,  $V_e$  : Effective Core Volume  
 $A_L$  : Inductance Factor 

Electrical Properties	
$A_L$ (nH)	5260 ±25%
$A_e$ (cm <sup>2</sup> )	1.78
$\Sigma l / A$ (cm <sup>-1</sup> )	5.5
$l_e$ (cm)	9.8
$V_e$ (cm <sup>3</sup> )	17.5

Toroids are tested for  $A_L$  values at 10 kHz.

Fair- Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288  
888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • [\[email protected\]](#) • [www.fair-rite.com](http://www.fair-rite.com)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ferrite Toroids / Ferrite Rings](#) category:*

*Click to view products by [Fair-Rite](#) manufacturer:*

Other Similar products are found below :

[28B0138-7](#) [28B0200-4](#) [28B0250-1](#) [28B0137-3](#) [432202094771](#) [4327 018 35221](#) [432703033201](#) [4327 030 37511](#) [4327 030 37911](#) [4327 030 57161](#) [432202101631](#) [4327 030 12521](#) [5343232001](#) [5943000901](#) [5961004101](#) [28B1250-2](#) [28B2000-3](#) [28B1387-1](#) [28B2400-0](#) [5961000811](#) [5968003801](#) [5975011101](#) [5977000501](#) [5975001821](#) [28B0355-0](#) [M-060](#) [CST29/19/7.5-4S2](#) [T9X8X5](#) [4077485111](#) [TN10/6/4-3F3](#) [TN14/9/5-3F3](#) [MP-050125-2](#) [TX10/6/4-3E5](#) [MS-050125-2](#) [MS-065075-2](#) [MS-106075-2](#) [MS-130060-2](#) [MS-157060-2](#) [MS-157075-2](#) [MS-157125-2](#) [MS-184026-2](#) [MS-184075-2](#) [MS-184125-2](#) [MS-225014-2](#) [MS-226014-2](#) [MS-226125-2](#) [MS-300014-2](#) [RT-100-60-30](#) [RT-100-60-80](#) [RT-100-70-50](#)