



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Toroids (5943003801)



Part Number: 5943003801

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.

The □C□ dimension may be modified to suit specific applications.

Weight: 106 (g)

| Dim | mm    | mm tol | nominal inch | inch misc. |
|-----|-------|--------|--------------|------------|
| A   | 61    | ±1.30  | 2.4          | —          |
| B   | 35.55 | ±0.85  | 1.4          | —          |
| C   | 12.7  | ±0.50  | 0.5          | —          |

### 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)                         | 1075 ±20% |
| $A_e$ (cm <sup>2</sup> )           | 1.58      |
| $\Sigma l / A$ (cm <sup>-1</sup> ) | 9.2       |
| $l_e$ (cm)                         | 14.5      |
| $V_e$ (cm <sup>3</sup> )           | 22.8      |

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

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