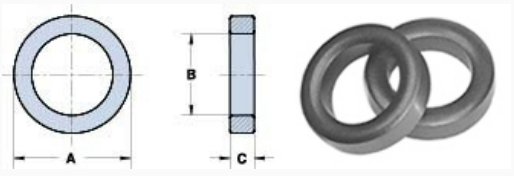
Toroids (5952003801)

Part No. 5952003801



Part Number	5952003801
Description	52 TOROID
Part Type	Toroids
Frequency Range	52 Material
Application Type	Inductive Components
Where Used	Closed Magnetic Circuit
Material Grade	52

ORDERING INFORMATION

Part Number: 5952003801

52 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.

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MECHANICAL SPECIFICATIONS

The C dimension may be modified to suit specific applications.

Weight: 120 (g)

Chart Legend
•Dimensions (Top numbers are in millimeters, bottom numbers are in nominal inches.).

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	_



ELECTRICAL SPECIFICATIONS

Chart Legend
ΣI/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	
AL(nH)	325 ±25%
Ae(cm^2)	1.58
ΣI/A(cm^{-1})	9.2
le(cm)	14.5
Ve(cm^3)	22.8

Toroids are tested for A_L values at 10 kHz.

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