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(TC19)
Micro Gap Power Toroidal Inductor

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Product Introduction

Introduction (TC19)

Features :

- Micro gap toroid technology.
- Not easy magnetic saturation.

Applications :

- VCD, DVD.

Token Through Hole Micro Gap Power Toroid Make Your Design More Cost-Effective. Gapped toroidal coils usually require that the gap be filled with some type of insulating material to facilitate the winding process. Split core current coils can be assembled directly on a conductor while toroids must be passed over a disconnected end of the conductor.

Power toroidal inductors are electronic components with the high performers among inductors, typically consisting of a circular ring-shaped magnetic core of iron powder, ferrite, or other material around which wire is coiled to make an inductor. Their windings cool better because of the proportionally larger surface area. Toroidal inductors with a round core cross section are better performers than toroidal inductors with a rectangular cross section.

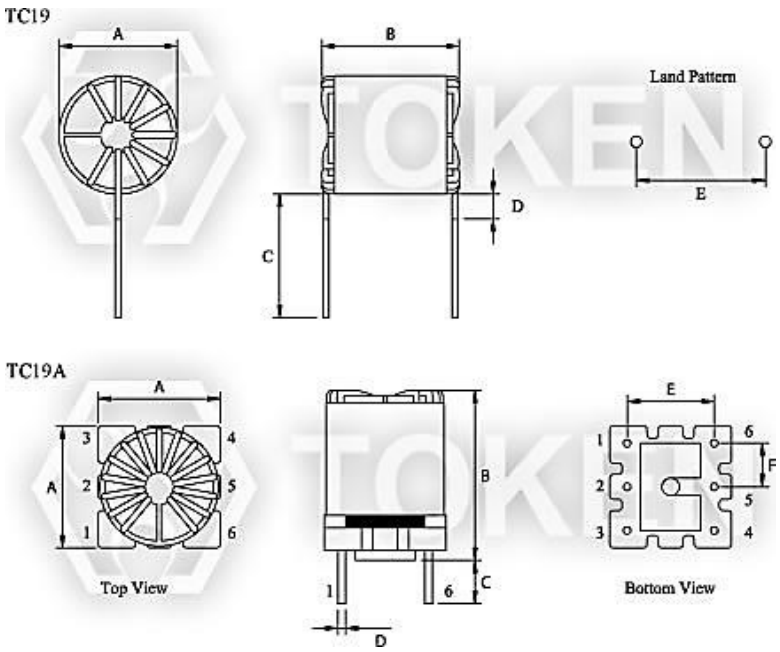
Token utilizes the latest micro gap toroid technology enabling the most cost-effective designs in manufacturing through hole (TC19) products. Token's TC19 Toroidal Series manufactured by Low loss powdered iron cores offer the compact size and lower electromagnetic interference (EMI). Token toroidal can have higher Q factors and higher inductance than similarly constructed solenoid coils. This is due largely to the smaller number of turns required when the core provides a closed magnetic path. The magnetic flux in a toroid is largely confined to the core, preventing its energy from being absorbed by nearby objects, making toroidal cores essentially self-shielding. The TC19 series is suitable for a broad range of applications, such as high-frequency coils and transformers.

Full line products meet RoHS compliant. Token will also produce devices outside these specifications to meet specific customer requirements, contact us with your specific needs. For more information, please link to Token official website “Through Hole Inductors”.

Configurations & Dimensions

Configurations & Dimensions (Unit: mm) (TC19)

Type	A	B	C	D	E	F
TC19	10.0 (Ref.)	11.5 (Ref.)	15.0 ± 5.0	2.0 (max)	11.0	-
TC19A	11.0 (Ref.)	15.0 (Ref.)	3.5 ± 1.0	0.6 ± 0.05	7.0 ± 0.5	3.5 ± 0.5



Through Hole Micro Gap Toroid Design (TC19) Dimensions

- **Note: Design as Customer's Requested Specifications.**

Electrical Characteristics

Electrical Characteristics (TC19)

Part Number	Inductance(µH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC19	19.5	100	0.093	3.00
TC19A	19.5	100	0.093	3.00

- **Note: Test Freq.: 100KHz / 0.1V.**
  Operating Temp.: -40℃ ~+85℃
  Inductance drop = 10% typ. at IDC.

Order Codes

Order Codes (TC19)

TC19
Power Inductor Through Hole Gap Toroidal Coils : (TC19 , TC19A)

General Information

Leading-Edge Technology

Token Electronics brand passive component specializes in standard and custom solutions offering the latest in state-of-the-art low profile high power density inductor components. Token provides cost-effective, comprehensive solutions that meet the evolving needs of technology-driven markets. In working closely with the industry leaders in chipset and core development, we remain at the forefront of innovation and new technology to deliver the optimal mix of packaging, high efficiency and unbeatable reliability. Our designs utilize high frequency, low core loss materials, new and custom core shapes in combination with innovative construction and packaging to provide designers with the highest performance parts available on the market.

Find Inductor Solutions Faster

Find Your Inductor - wt.moc.nekot@qfr
Only timely and accurate information can help manage the changing needs of your customers. The Token Inductor Finder puts you only a click away from all of the inductor information you need.

Find Your Solution - wt.moc.nekot@qfr
Selecting the correct inductor solution will not only save you time, but it will give you a competitive edge. At Token, we are committed to helping you find the most efficient alternative for your power design. Our inductor and power supply design experts can help you make that selection.

Please forward us:

- A brief description of your particular application's requirements.
- Details of an existing solution that you'd like to replace, enhance or find an alternative.
- Inquiries for feasibility to tailor a power transformer or inductor to your specific application.

We can also help you with any additional technical information you might need relating to any of our products.
Ask Us Today