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(TCLP/TCVP) SMD Power Wire wound Toroidal Inductor

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Product Introduction

Introduction (TCLP/TCVP)

Features :

- high saturation for surface mounting.
- Large Current and Low DCR.

Applications :

- TV BOX.
- Power supply applications.
- Output Ripple Current Filter.

Token introduces high-current & high saturation flux density compact Surface-Mount Power Wire wound Toroidal Inductors. Token Electronics Power Solutions has enhanced its toroidal surface-mount and radial lead inductor portfolios with the addition of four new ranges of RoHS compliant components. The surface mount (TCLP/TCVP) series are general-purpose radial leaded inductors suitable for providing high saturation flux density and higher current ratings applications such as those found in power supplies.

The (TCLP/TCVP) series of toroidal surface-mount power wire wound inductors meanwhile are designed for use in switching AC/DC power supplies and DC/DC converters. Both of TCLP and TCVP version secure 4 terminal mounting inductor more versatile inductance combination by series or parallel connections. Token (TCLP/TCVP) surface mount magnetics that can be used as single, or coupled inductors, or 1:1 transformers that provide isolation between two windings are designed around high frequency low loss material.

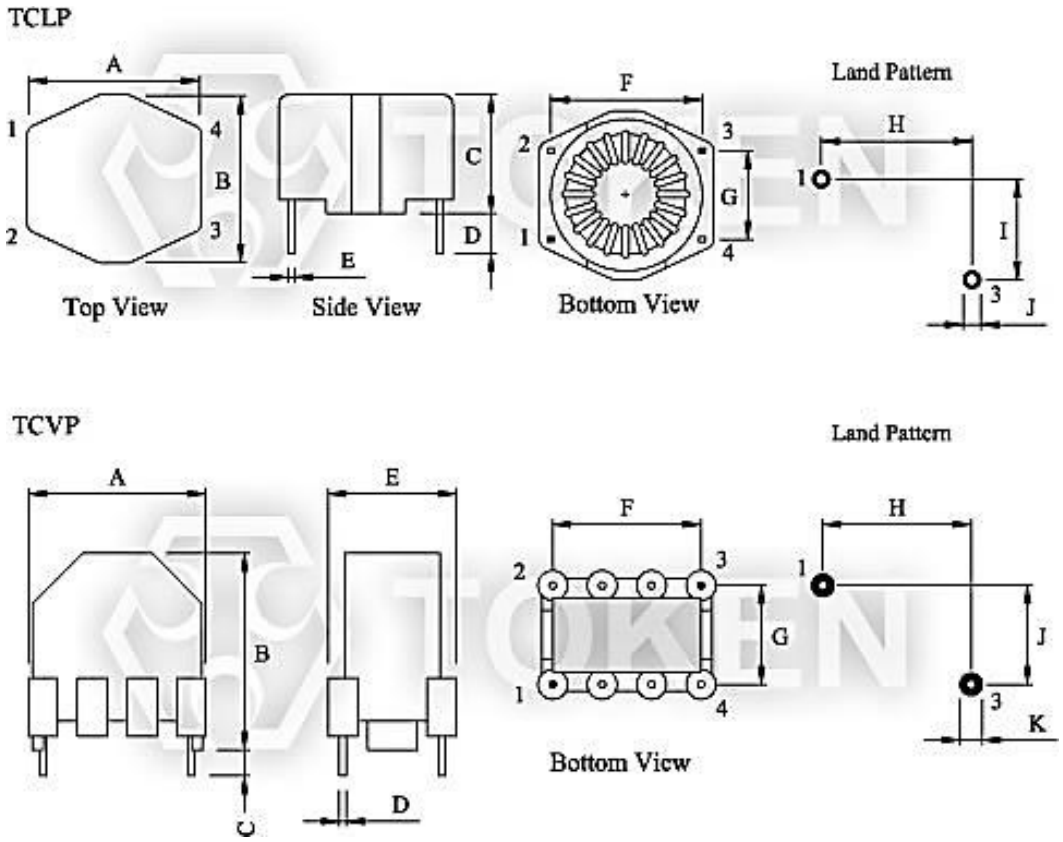
The (TCLP/TCVP) series surface-mount toroidal inductors have compact overall dimensions with a maximum overall height of less than 13 mm and 21 mm. The toroidal construction of the new inductors aids design engineers by helping minimize EMI issues.

Custom parts are available on request. 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) (TCLP/TCVP)

Type	A(max)	B(max)	C	D	E	F	G	H	I	J
TCLP	18.03	18.03	13.0(max)	4.0 ± 1.0	0.64 ± 0.2	15.3 ± 0.5	10.2 ± 0.5	15.3	10.2	1.78
TCVP	19.00	21.00	4.0 ± 1.0	0.7 ± 0.3	14.0(max)	15.0 ± 0.5	10.0 ± 0.5	15.0	10.0	1.78



Higher Current Rating (TCLP/TCVP) Configurations & Dimensions

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

Electrical Characteristics

Electrical Characteristics (TCLP/TCVP)

Part Number	Inductance(µH)	Test Freq.(KHz)	L@IDC(µH)(min)	DCR (Ω)(max)	IDC (A)(max)
TC*P - 60E - 151M	150	100	125	0.210	1.70
TC*P - 60E - 221M	220	100	180	0.250	1.50
TC*P - 60E - 331M	330	100	280	0.480	1.00
TC*P - 60E - 471M	470	100	400	0.660	0.90
TC*P - 60E - 681M	680	100	590	0.930	0.85
TC*P - 60E - 821M	820	100	700	1.300	0.75
TC*P - 60E - 102M	1000	100	930	1.600	0.50

Order Codes

Order Codes (TCLP/TCVP)

TCLP	-	60E	-	151	M

Part Number	Core Material
TCLP	
TCVP	

Inductance	
151	150µHc
471	470.00µH
102	1000.00µH

Tolerance	
M	20%
N	30%

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