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# TOKEN

## (TCRS)

# Radial Choke Coil Inductors

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## ▶ Product Introduction

### Radial choke coil shielded construction design for higher frequency.

#### Features :

- Magnetic shielded construction.
- Ideal for use as an inductor for high current power supplies in all types of electronic instruments.

#### Applications :

- Notebook, Inkjet printer, Copying machine,
- Display monitor, Cellular phone, ADSL modem,
- Gaming machine, Color TV, Video tape recorder,
- Microwave oven, Lighting and Car electronics.

Token TCRS series structure with magnetic shielded construction design and protect by UL or PVC Heat-shrinkable tube. The TCRS features with small size, space savings, wide inductance range, high Q value, low cost, high availability of a large induced current, high self-resonance frequency, small magnetic flux leakage and so on.

Choke coils, also known as: Choke, differential mode inductors, is used to limit the alternating current through the coil, high-frequency and low frequency choke coils.

The TCRS is ideal for notebook computers, inkjet printers, photocopying machines, color TV, VCR, camera, microwave ovens, display monitors, mobile phones, broadband modems, game consoles, lighting equipment, automotive electronics products.


Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales or link to Token official website "[Through Hole Inductors](http://www.token.com.tw)" for more information.

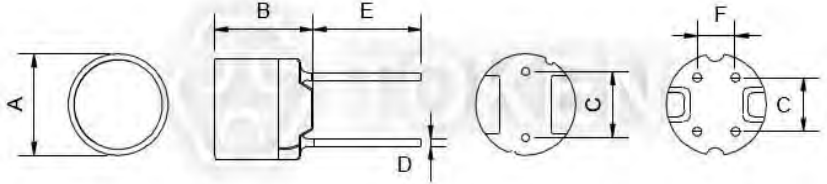


► **Configurations & Dimensions**

**Configurations & Dimensions (Unit: mm) (TCRS)**

Part NO	A±1.0	B±1.0	C	D (Ref)	E (Ref)	F(Ref)
TCRS0606C	6.0	6.5	4.0	0.5	15	FIG1
TCRS0807C	7.8	7.5	5.0	0.7	15	FIG1
TCRS1008C	10	8.5	5.0	0.7	15	FIG1(4.0±0.3)
TCRS1010C	10	10.5	5.0	0.7	15	FIG1(4.0±0.3)





(TCRS) Configurations & Dimensions

● Note: Design as Customer's Requested Specifications.

▶ TCRS

**Electrical Characteristics (TCRS)**

MARKING	Inductance (μH)	TCRS0606C		TCRS0807C		TCRS1008C		TCRS1010C	
		DCR(Ω) Max	IDC (A)	DCR(Ω) Max	IDC (A)	DCR(Ω) Max	IDC (A)	DCR(Ω) Max	IDC (A)
100	10					0.05	2.80	0.023	3.51
120	12					0.06	2.50	0.024	3.24
150	15					0.07	2.30	0.036	2.88
180	18					0.08	2.10	0.039	2.61
220	22	0.13	0.96	0.08	1.6	0.09	2.00	0.042	2.34
270	27	0.18	0.87	0.10	1.4	0.10	1.76	0.045	2.16
330	33	0.21	0.78	0.14	1.3	0.11	1.60	0.057	1.89
390	39	0.26	0.72	0.15	1.2	0.12	1.38	0.076	1.80
470	47	0.29	0.66	0.17	1.1	0.14	1.28	0.10	1.62
560	56	0.33	0.60	0.19	0.99	0.15	1.20	0.11	1.44
680	68	0.36	0.55	0.21	0.89	0.16	1.00	0.15	1.35
820	82	0.39	0.50	0.27	0.81	0.18	0.96	0.16	1.26
101	100	0.54	0.45	0.32	0.74	0.20	0.92	0.19	1.08
121	120	0.62	0.41	0.36	0.67	0.24	0.80	0.21	0.99
151	150	0.72	0.37	0.51	0.60	0.35	0.73	0.23	0.90
181	180	0.88	0.34	0.57	0.55	0.40	0.64	0.26	0.82
221	220	0.99	0.30	0.76	0.50	0.54	0.61	0.29	0.74
271	270	1.52	0.27	0.86	0.45	0.76	0.56	0.36	0.67
331	330	1.69	0.25	0.97	0.41	0.86	0.50	0.51	0.61
391	390	1.85	0.23	1.28	0.37	0.93	0.44	0.69	0.55
471	470	2.85	0.21	1.44	0.34	1.23	0.41	0.98	0.51
561	560	3.21	0.19	1.62	0.31	1.34	0.38	1.10	0.46
681	680	3.60	0.17	2.07	0.28	1.53	0.34	1.20	0.42
821	820	4.87	0.16	2.33	0.26	2.10	0.32	1.30	0.38
102	1000	5.56	0.14	2.72	0.23	2.30	0.28	1.50	0.35
122	1200			3.98	0.21				
152	1500			4.50	0.19				
182	1800			6.81	0.17				
222	2200			7.56	0.16				
272	2700			8.54	0.14				
332	3300			9.74	0.13				
392	3900			12.9	0.12				
472	4700			14.7	0.11				
562	5600			20.4	0.099				
682	6800			23.0	0.089				
822	8200			30.6	0.081				
103	10000			35.0	0.074				

Note:

- Test Freq.: 1KHz / 0.25V.
- Operating Temp.: -40°C ~ +85°C.
- Inductance drop = 10% typ. at IDC.

► **Order Codes**

**Order Codes (TCRS)**

TCRS	0606		-	220		M	
Part Number	Size			Inductance		Tolerance	
TCRS	0606	6.0×6.5mm		220	22.00μH	J	5%
	0807	7.8×7.5mm		101	100.00μH	K	10%
	1008	10.0×8.5mm		102	1000.00μH	L	15%
	1010	10.0×10.5mm		103	10000.00μH	M	20%
						N	30%
						Y	min

► **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**

