Product Introduction

High-power low-loss choke coil portfolio expands to cover 10µH to 120000µH.

Features :

- Magnetically shielded construction.
- Low cost and high reliability.
- All lead-free.(RoHS).

Applications :

- Notebook, inkjet printer, copying machine, display monitor.
- Cellular phone, ADSL modem, Gaming machine, color TV.
- Video tape recorder, Video camera, Microwave oven, lighting Andcar electronics.

The choke coil is also known as: chokes, choke inductors, or differential mode inductor used to limit the AC through the coil. Token Power Choke Coils offer high heat resistance, excellent DC bias characteristic, Hi-BS With Ferrous alloy magnetic material and great reliability at high temperatures with a high tolerance for vibration. These Power Choke Coils also have very low audible noise and are extremely efficient with low DCR and eddy current loss reduction.

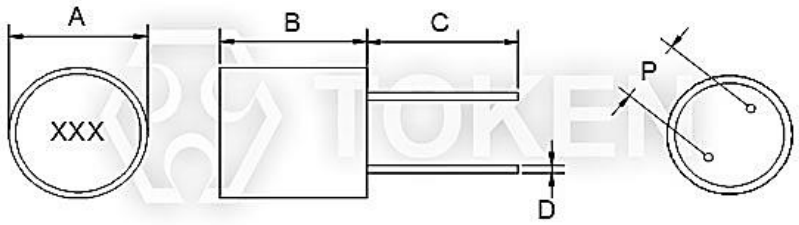
Power choke inductors (TCRCS) are optimized for removing high-frequency noise in power supply. Prepareing small types for mobile devices and higher-power types, customer can select the most suitable product with the appropriate inductance and rated current.

Token Power choke inductor (TCRCS) conforms to the RoHS directive and Lead-free. Custom parts are available on request for tighter tolerances. Application of specific designs also available including different inductance and frequency specifications adjusted to requirements. Please contact our sales for more information. Please contact our sales or link to Token official website “Through Hole Inductors” for more information.

Configurations & Dimensions

Configurations & Dimensions (Unit: mm) (TCRCS)

Part NO	A(Max)	B(Max)	C(Ref)	D±0.1	P±0.5
TCRCS1009	11.5	10.5	15	0.65	5.0
TCRCS1012	11.0	13.0	15	0.65	5.0
TCRCS1014	11.0	15.0	15	0.65	5.0
TCRCS1214	13.0	15.0	15	0.8	5.0



- **Note: Design according to customer's special requirement。**

TCRCS

Electrical Characteristics (TCRCS)

MARKING	Inductance (µH)	TCRCS1009		TCRCS1012		TCRCS1014		TCRCS1214	
		DCR (Ω)Max	Isat (mA)	DCR (Ω)Max	Isat (mA)	DCR (Ω)Max	Isat (mA)	DCR (Ω)Max	Isat (mA)
100	10	0.018	1000	0.027	3300	0.029	4500	0.015	4000
150	15	0.020	810	0.033	2800	0.040	3650	0.017	3800
180	18	0.023	765	0.037	2500	0.054	3200	0.020	3600
220	22	0.025	630	0.045	2250	0.060	3200	0.021	3400
270	27	0.027	495	0.051	2000	0.066	2700	0.023	3200
330	33	0.034	470	0.067	1870	0.070	2400	0.024	3000
390	39	0.039	390	0.076	1680	0.078	2250	0.027	2600
470	47	0.047	370	0.085	1500	0.086	2100	0.032	2200
560	56	0.049	325	0.094	1440	0.094	1900	0.034	2000
680	68	0.056	290	0.103	1280	0.102	1750	0.060	1800
820	82	0.061	270	0.125	1200	0.124	1650	0.070	1700
101	100	0.069	230	0.170	1110	0.158	1450	0.090	1500
151	150	0.095	200	0.210	840	0.248	1180	0.11	1250
181	180	0.105	175	0.235	810	0.345	1080	0.12	1120
221	220	0.115	160	0.300	725	0.440	920	0.14	950
271	270	0.150	140	0.420	640	0.488	870	0.16	900
331	330	0.195	115	0.475	590	0.650	800	0.17	850
391	390	0.210	108	0.600	540	0.835	740	0.32	760
471	470	0.250	104	0.668	500	0.902	670	0.35	700
561	560	0.280	95	0.855	435	1.21	610	0.39	670
681	680	0.365	78	1.08	390	1.33	555	0.44	620
821	820	0.425	75	1.20	370	1.45	510	0.48	580
102	1000	0.470	68	1.38	332	2.05	468	0.53	540
122	1200	1.000	50	3.70	52	2.25	435	0.66	500
152	1500	5.9	46	4.0	47	2.50	375	0.86	420
182	1800	6.6	41	4.5	44	2.80	350	0.95	380
222	2200	7.8	37	5.2	41	3.90	300	1.07	340
272	2700	9.0	34	5.8	37	4.28	275		
332	3300	10.0	30	6.1	33	7.68	260		
392	3900	11.5	28	7.2	30	8.35	235		
472	4700	12.6	25	7.5	28	9.10	215		
562	5600	17.2	23	8.4	25	10.2	195		
682	6800	19.0	20	9.7	23	15.4	180		
822	8200	22.0	18	10.4	21	16.9	160		
103	10000	25.0	15	12.1	18	23.5	150		
123	12000	28.0	14	13.0	17				
153	15000	33.0	12	15.0	15				
183	18000	42.0	11	17.0	13				
223	22000	48.0	10	19.5	11				
273	27000	56.0	10	22.0	10				
333	33000	64.0	9	26.0	9				
393	39000	72.0	8	45.0	8				
473	47000	82.0	8	52.0	8				
563	56000			58.0	7				
683	68000			67.0	6				
823	82000			71.0	5				
104	100000			82.0	5				
124	120000			97.0	5				

Order Codes

Order Codes (TCRCS)

TCRCS	124	-	6R8	M

Part Number	Size		Inductance		Tolerance	
TCRCS	1009	11.5×10.5	100	10.00μH	J	±5%
	1012	11.0×13.0	101	100.00μH	K	±10%
	1014	11.0×15.0	102	1000.00μH	L	±15%
	1214	13.0×15.0			M	±20%
					P	±25%
					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