



# Inductor

## TCRC Radial Series Choke Inductor - / 扼流线圈电感器

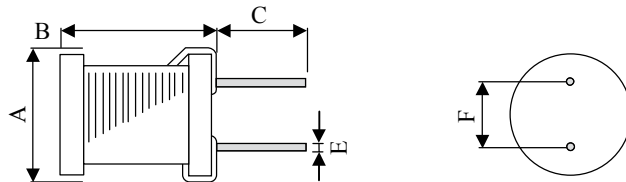
### ► Features

Open Magnetic circuit construction.  
Low cost and high reliability.

### ► Applications

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

### ► Choke Inductor Configurations & Dimensions (unit: mm)



Bottom View

Type	$\Phi A(\text{max})$	B(max)	$C \pm 1.5$	$\Phi E \pm 0.05$	$F \pm 0.5$
TCRC0406	6.0	9.5	15.0	0.50	2.0
TCRC0608	8.0	11.5	15.0	0.65	3.0
TCRC0810	10.0	14.0	15.0	0.65	5.0
TCRC0912	11.0	16.5	15.0	0.80	5.0
TCRC1012	12.0	16.5	15.0	0.80	6.0
TCRC1016	12.5	21.0	15.0	0.80	6.0

Note: Design as Customer's Requested Specifications.

### ► Electrical Characteristics for TCRC0406 Series Choke Inductor

Part Number	Inductance( $\mu\text{H}$ )	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC0406 - 1R0N	1.00	1	0.030	3.00
TCRC0406 - 1R5N	1.50	1	0.035	2.80
TCRC0406 - 1R8N	1.80	1	0.040	2.70
TCRC0406 - 2R2N	2.20	1	0.045	2.50
TCRC0406 - 2R7N	2.70	1	0.050	2.50
TCRC0406 - 3R3N	3.30	1	0.055	2.20
TCRC0406 - 3R9N	3.90	1	0.055	2.20
TCRC0406 - 4R7N	4.70	1	0.065	2.00
TCRC0406 - 5R6N	5.60	1	0.070	1.80
TCRC0406 - 6R8N	6.80	1	0.080	1.70
TCRC0406 - 8R2N	8.20	1	0.090	1.50
TCRC0406 - 100M	10.00	1	0.110	1.40
TCRC0406 - 120M	12.00	1	0.140	1.20
TCRC0406 - 150M	15.00	1	0.160	1.00
TCRC0406 - 180M	18.00	1	0.180	1.00
TCRC0406 - 220M	22.00	1	0.250	0.90
TCRC0406 - 270M	27.00	1	0.370	0.80
TCRC0406 - 330M	33.00	1	0.420	0.70

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Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCRC0406 - 390M	39.00	1	0.450	0.70
TCRC0406 - 470M	47.00	1	0.500	0.60
TCRC0406 - 560M	56.00	1	0.560	0.60
TCRC0406 - 680M	68.00	1	0.630	0.55
TCRC0406 - 820M	82.00	1	0.770	0.50
TCRC0406 - 101M	100.00	1	0.850	0.40
TCRC0406 - 121M	120.00	1	1.300	0.40
TCRC0406 - 151M	150.00	1	1.400	0.30
TCRC0406 - 181M	180.00	1	2.200	0.30
TCRC0406 - 221M	220.00	1	2.500	0.28
TCRC0406 - 271M	270.00	1	2.700	0.25
TCRC0406 - 331M	330.00	1	3.000	0.22
TCRC0406 - 391M	390.00	1	3.400	0.21
TCRC0406 - 471M	470.00	1	3.900	0.20
TCRC0406 - 561M	560.00	1	5.000	0.16
TCRC0406 - 681M	680.00	1	7.000	0.15
TCRC0406 - 821M	820.00	1	7.700	0.14
TCRC0406 - 102M	1000.00	1	8.700	0.12

Note: Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C

Inductance drop = 10% typ. at IDC.

## ▶ Electrical Characteristics for TCRC0608 Series Choke Inductor

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCRC0608 - 1R0N	1.00	1	0.015	3.00
TCRC0608 - 1R2N	1.20	1	0.015	2.80
TCRC0608 - 1R5N	1.50	1	0.015	2.70
TCRC0608 - 2R2N	2.20	1	0.015	2.60
TCRC0608 - 2R7N	2.70	1	0.020	2.50
TCRC0608 - 3R3N	3.30	1	0.020	2.50
TCRC0608 - 3R9N	3.90	1	0.025	2.50
TCRC0608 - 4R7N	4.70	1	0.025	2.30
TCRC0608 - 5R6N	5.60	1	0.030	2.10
TCRC0608 - 6R8N	6.80	1	0.030	1.80
TCRC0608 - 8R2N	8.20	1	0.035	1.20
TCRC0608 - 100M	10.00	1	0.045	1.00
TCRC0608 - 120M	12.00	1	0.050	1.00
TCRC0608 - 150M	15.00	1	0.055	0.90
TCRC0608 - 180M	18.00	1	0.090	0.90
TCRC0608 - 220M	22.00	1	0.095	0.80
TCRC0608 - 270M	27.00	1	0.110	0.75
TCRC0608 - 330M	33.00	1	0.125	0.70

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Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC0608 - 390M	39.00	1	0.140	0.65
TCRC0608 - 470M	47.00	1	0.160	0.60
TCRC0608 - 560M	56.00	1	0.180	0.60
TCRC0608 - 680M	68.00	1	0.200	0.56
TCRC0608 - 820M	82.00	1	0.270	0.48
TCRC0608 - 101M	100.00	1	0.310	0.45
TCRC0608 - 121M	120.00	1	0.370	0.43
TCRC0608 - 151M	150.00	1	0.470	0.40
TCRC0608 - 181M	180.00	1	0.540	0.40
TCRC0608 - 221M	220.00	1	0.730	0.38
TCRC0608 - 271M	270.00	1	0.830	0.32
TCRC0608 - 331M	330.00	1	0.950	0.30
TCRC0608 - 391M	390.00	1	1.220	0.25
TCRC0608 - 471M	470.00	1	1.630	0.22
TCRC0608 - 561M	560.00	1	1.800	0.20
TCRC0608 - 681M	680.00	1	2.100	0.18
TCRC0608 - 821M	820.00	1	2.900	0.17
TCRC0608 - 102M	1000.00	1	3.200	0.15

Note: Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C

Inductance drop = 10% typ. at IDC.

## ► Electrical Characteristics for TCRC0810 Series Choke Inductor

Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC0810 - 1R0N	1.00	1	0.015	4.50
TCRC0810 - 1R5N	1.50	1	0.020	4.50
TCRC0810 - 2R2N	2.20	1	0.020	4.20
TCRC0810 - 2R7N	2.70	1	0.020	4.20
TCRC0810 - 3R3N	3.30	1	0.020	4.00
TCRC0810 - 3R9N	3.90	1	0.020	4.00
TCRC0810 - 4R7N	4.70	1	0.025	4.00
TCRC0810 - 5R6N	5.60	1	0.025	4.00
TCRC0810 - 6R8N	6.80	1	0.025	4.00
TCRC0810 - 8R2N	8.20	1	0.035	3.80
TCRC0810 - 100M	10.00	1	0.040	3.80
TCRC0810 - 120M	12.00	1	0.040	3.20
TCRC0810 - 150M	15.00	1	0.045	2.80
TCRC0810 - 180M	18.00	1	0.060	2.50
TCRC0810 - 220M	22.00	1	0.070	2.10
TCRC0810 - 270M	27.00	1	0.085	2.00
TCRC0810 - 330M	33.00	1	0.090	1.80
TCRC0810 - 390M	39.00	1	0.100	1.60

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Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC0810 - 470M	47.00	1	0.110	1.50
TCRC0810 - 560M	56.00	1	0.150	1.30
TCRC0810 - 680M	68.00	1	0.190	1.00
TCRC0810 - 820M	82.00	1	0.210	0.90
TCRC0810 - 101M	100.00	1	0.240	0.80
TCRC0810 - 121M	120.00	1	0.260	0.80
TCRC0810 - 151M	150.00	1	0.310	0.75
TCRC0810 - 181M	180.00	1	0.380	0.70
TCRC0810 - 221M	220.00	1	0.430	0.65
TCRC0810 - 271M	270.00	1	0.490	0.63
TCRC0810 - 331M	330.00	1	0.660	0.60
TCRC0810 - 391M	390.00	1	0.790	0.58
TCRC0810 - 471M	470.00	1	0.910	0.52
TCRC0810 - 561M	560.00	1	1.130	0.50
TCRC0810 - 681M	680.00	1	1.300	0.40
TCRC0810 - 821M	820.00	1	1.530	0.30
TCRC0810 - 102M	1000.00	1	1.800	0.27

Note: Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C

Inductance drop = 10% typ. at IDC.

## ▶ Electrical Characteristics for TCRC0912 Series Choke Inductor

Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC0912 - 1R0N	1.00	1	0.015	5.00
TCRC0912 - 1R5N	1.50	1	0.015	5.00
TCRC0912 - 1R8N	1.80	1	0.015	5.00
TCRC0912 - 2R2N	2.20	1	0.015	5.00
TCRC0912 - 3R3N	3.30	1	0.020	4.80
TCRC0912 - 3R9N	3.90	1	0.020	4.80
TCRC0912 - 4R7N	4.70	1	0.020	4.50
TCRC0912 - 5R6N	5.60	1	0.025	4.00
TCRC0912 - 6R8N	6.80	1	0.025	3.90
TCRC0912 - 8R2N	8.20	1	0.025	3.50
TCRC0912 - 100M	10.00	1	0.030	3.40
TCRC0912 - 120M	12.00	1	0.030	3.20
TCRC0912 - 150M	15.00	1	0.040	3.00
TCRC0912 - 180M	18.00	1	0.045	2.80
TCRC0912 - 220M	22.00	1	0.050	2.70
TCRC0912 - 270M	27.00	1	0.055	2.50
TCRC0912 - 330M	33.00	1	0.055	2.50
TCRC0912 - 390M	39.00	1	0.060	2.00
TCRC0912 - 470M	47.00	1	0.070	1.80

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Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC0912 - 560M	56.00	1	0.080	1.70
TCRC0912 - 680M	68.00	1	0.090	1.50
TCRC0912 - 820M	82.00	1	0.110	1.40
TCRC0912 - 101M	100.00	1	0.160	1.20
TCRC0912 - 121M	120.00	1	0.170	1.10
TCRC0912 - 151M	150.00	1	0.200	1.00
TCRC0912 - 181M	180.00	1	0.220	0.90
TCRC0912 - 221M	220.00	1	0.260	0.80
TCRC0912 - 271M	270.00	1	0.390	0.70
TCRC0912 - 331M	330.00	1	0.450	0.50
TCRC0912 - 391M	390.00	1	0.490	0.45
TCRC0912 - 471M	470.00	1	0.620	0.43
TCRC0912 - 561M	560.00	1	0.640	0.40
TCRC0912 - 681M	680.00	1	0.790	0.38
TCRC0912 - 821M	820.00	1	1.340	0.35
TCRC0912 - 102M	1000.00	1	1.820	0.30

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

## ► Electrical Characteristics for TCRC1012 Series Choke Inductor

Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC1012 - 1R0N	1.00	1	0.010	6.00
TCRC1012 - 1R5N	1.50	1	0.010	6.00
TCRC1012 - 1R8N	1.80	1	0.015	6.00
TCRC1012 - 2R7N	2.70	1	0.015	5.50
TCRC1012 - 3R3N	3.30	1	0.015	5.50
TCRC1012 - 3R9N	3.90	1	0.020	5.00
TCRC1012 - 4R7N	4.70	1	0.020	5.00
TCRC1012 - 5R6N	5.60	1	0.025	4.80
TCRC1012 - 6R8N	6.80	1	0.025	4.80
TCRC1012 - 8R2N	8.20	1	0.025	4.50
TCRC1012 - 100M	10.00	1	0.025	4.50
TCRC1012 - 120M	12.00	1	0.025	4.30
TCRC1012 - 150M	15.00	1	0.035	4.30
TCRC1012 - 180M	18.00	1	0.040	4.00
TCRC1012 - 220M	22.00	1	0.045	3.70
TCRC1012 - 270M	27.00	1	0.045	3.50
TCRC1012 - 330M	33.00	1	0.055	3.00
TCRC1012 - 390M	39.00	1	0.060	2.50
TCRC1012 - 470M	47.00	1	0.080	2.30
TCRC1012 - 560M	56.00	1	0.085	2.00

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Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC1012 - 680M	68.00	1	0.095	2.00
TCRC1012 - 820M	82.00	1	0.110	1.80
TCRC1012 - 101M	100.00	1	0.140	1.70
TCRC1012 - 121M	120.00	1	0.160	1.50
TCRC1012 - 151M	150.00	1	0.180	1.40
TCRC1012 - 181M	180.00	1	0.250	1.30
TCRC1012 - 221M	220.00	1	0.280	1.00
TCRC1012 - 271M	270.00	1	0.420	0.90
TCRC1012 - 331M	330.00	1	0.540	0.80
TCRC1012 - 391M	390.00	1	0.600	0.80
TCRC1012 - 471M	470.00	1	0.660	0.70
TCRC1012 - 561M	560.00	1	0.740	0.60
TCRC1012 - 681M	680.00	1	0.840	0.50
TCRC1012 - 821M	820.00	1	1.080	0.50
TCRC1012 - 102M	1000.00	1	1.390	0.50

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

## ▶ Electrical Characteristics for TCRC1016 Series Choke Inductor

Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC1016 - 1R0N	1.00	1	0.010	9.00
TCRC1016 - 1R5N	1.50	1	0.015	9.00
TCRC1016 - 1R8N	1.80	1	0.015	9.00
TCRC1016 - 2R7N	2.70	1	0.015	9.00
TCRC1016 - 3R3N	3.30	1	0.015	8.50
TCRC1016 - 3R9N	3.90	1	0.015	8.00
TCRC1016 - 4R7N	4.70	1	0.020	7.50
TCRC1016 - 5R6N	5.60	1	0.025	7.50
TCRC1016 - 6R8N	6.80	1	0.025	7.50
TCRC1016 - 8R2N	8.20	1	0.025	7.20
TCRC1016 - 100M	10.00	1	0.030	7.20
TCRC1016 - 120M	12.00	1	0.030	7.00
TCRC1016 - 150M	15.00	1	0.035	6.50
TCRC1016 - 180M	18.00	1	0.035	6.30
TCRC1016 - 220M	22.00	1	0.045	5.50
TCRC1016 - 270M	27.00	1	0.050	4.50
TCRC1016 - 330M	33.00	1	0.070	4.00
TCRC1016 - 390M	39.00	1	0.070	3.80
TCRC1016 - 470M	47.00	1	0.070	3.60
TCRC1016 - 560M	56.00	1	0.080	3.20
TCRC1016 - 680M	68.00	1	0.090	3.00

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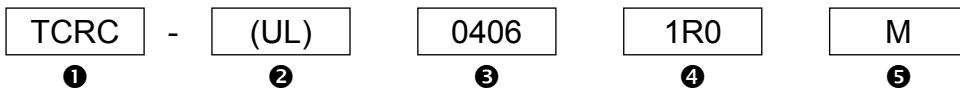
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Part Number	Inductance( $\mu$ H)	Test Freq.(KHz)	DCR ( $\Omega$ )(max)	IDC (A)(max)
TCRC1016 - 820M	82.00	1	0.095	2.60
TCRC1016 - 101M	100.00	1	0.120	2.50
TCRC1016 - 121M	120.00	1	0.140	2.30
TCRC1016 - 151M	150.00	1	0.170	2.10
TCRC1016 - 181M	180.00	1	0.190	2.00
TCRC1016 - 221M	220.00	1	0.250	1.80
TCRC1016 - 271M	270.00	1	0.340	1.50
TCRC1016 - 331M	330.00	1	0.450	1.50
TCRC1016 - 391M	390.00	1	0.510	1.30
TCRC1016 - 471M	470.00	1	0.560	1.20
TCRC1016 - 561M	560.00	1	0.640	1.00
TCRC1016 - 681M	680.00	1	0.710	1.00
TCRC1016 - 821M	820.00	1	1.010	0.90
TCRC1016 - 102M	1000.00	1	1.200	0.80

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

## How to Order



- ① Choke Inductor Radial : TCRC
- ② Tube: UL
- ③ Size: 0406, 0608, 0810, 0912, 1012, 1016
- ④ Inductance

Code	Inductance
1R0	1.00 $\mu$ H
100	10.00 $\mu$ H
101	100.00 $\mu$ H
102	1000.00 $\mu$ H

### ⑤ Tolerance

Code	Tolerance
J	5%
K	10%
L	15%
M	20%
N	30%
Y	min