



SMD Power Inductors / 贴片功率电感

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SMD Power Inductors / 贴片功率电感

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Notice: Specification Changed or Version Updated will be posted at irregular intervals.
All Updated and Final Specifications, Please Confirm with TOKEN ELECTRONICS REPRESENTATIVES.



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SMD Power Inductors

Backlight SMT Power Inductors - TC1608DBL Series

▶ Backlight SMT Power Inductor Features

- Magnetically shielded construction
- Compact Size
- High breakdown voltage
- DCR is lower than other inductors 10%~60%

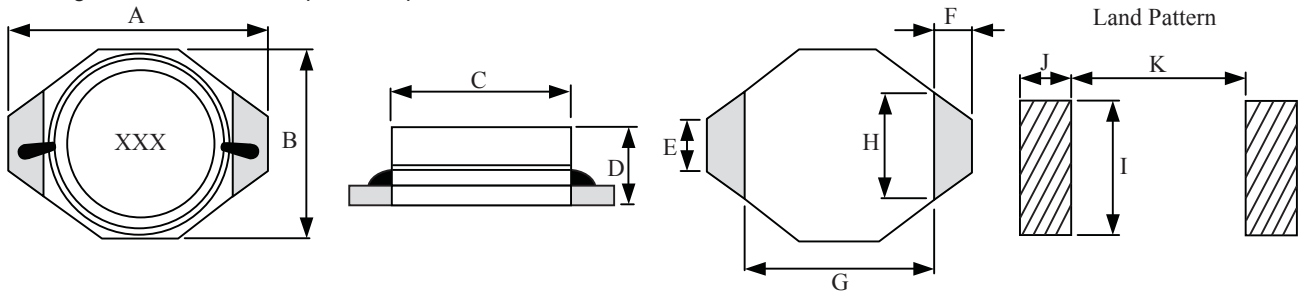
▶ Applications

Backlight applications : PDA, USB, LCD, TFT.

▶ Backlight SMT Power Inductor Dimensions & Configurations(Unit In mm)

Type	A(max)	B(max)	C±0.3	D(max)	E±0.3	F±0.3	G±0.3	H±0.3	I	J	K
TC1608DBL	6.60	4.45	4.00	2.92	1.27	1.02	4.32	2.50	3.56	1.40	4.06

Note: Design as Customer's Requested Specifications.

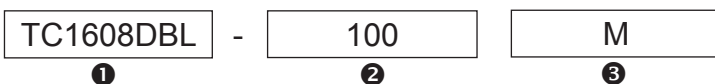


▶ Backlight Electrical Characteristics for TC1608DBL Series SMT Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	Insulationcore-winding	DCR (Ω) (max)	Current (A) (max)
TC1608DBL - 101M	100.00	100	>10	0.950	0.22
TC1608DBL - 151M	150.00	100	>10	1.400	0.20
TC1608DBL - 221M	220.00	100	>10	1.700	0.18
TC1608DBL - 331M	330.00	100	>10	2.200	0.16
TC1608DBL - 471M	470.00	100	>10	3.800	0.14
TC1608DBL - 681M	680.00	100	>10	4.900	0.12
TC1608DBL - 102M	1000.00	100	>10	9.000	0.10
TC1608DBL - 152M	1500.00	100	>10	11.000	0.08
TC1608DBL - 222M	2200.00	100	>10	19.000	0.05
TC1608DBL - 332M	3300.00	100	>10	24.000	0.04
TC1608DBL - 472M	4700.00	100	>10	30.000	0.03
TC1608DBL - 682M	6800.00	100	>10	56.000	0.02
TC1608DBL - 103M	10000.00	100	>10	74.000	0.01

Note: Test Freq.: 100KHz / 0.1V. Current (max).... 30°C temperature rise. Operating Temp.: -40°C ~ +85°C.

▶ How to Order



① Backlight SMT Power Inductors: TC1608DBL

② Inductance

Code	Inductance
101	100.00μH
102	1000.00μH
103	10000.00μH

③ Tolerance

Code	Tolerance
M	20%
N	30%





SMD Power Inductors

SMT Shielded Power Inductors - TC1608DC Series

► SMT Shielded Power Inductor Features

Magnetically shielded construction
 Compact Size and Thin
 Lower DCR more 10%~60%

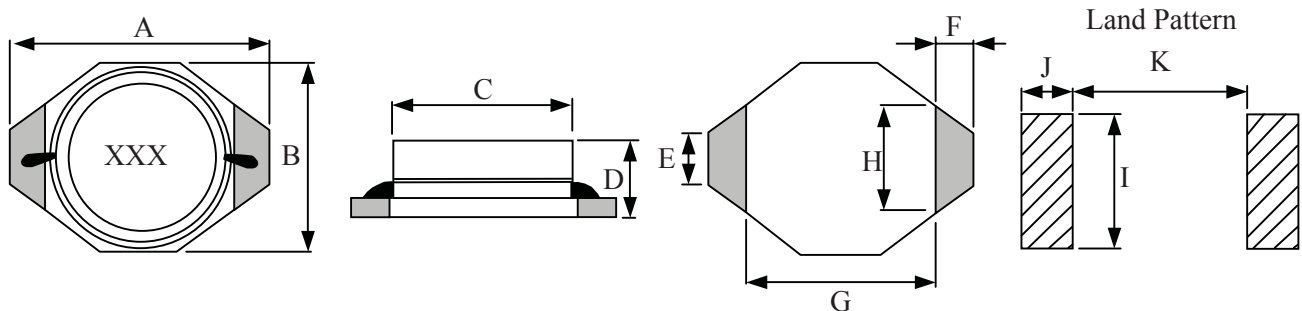
► SMT Shielded Power Inductor Applications

Notebook, Cellular Phone, DC/DC converter, PDA

► SMT Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	H ± 0.3	I	J	K
TC1608DC	6.60	4.45	4.00	2.92	1.27	1.02	4.32	2.50	3.56	1.40	4.06

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC1608DC Series SMT Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TC1608DC - 1R0M	1.00	100	0.040	3.00
TC1608DC - 1R5M	1.50	100	0.045	2.80
TC1608DC - 2R2M	2.20	100	0.050	1.80
TC1608DC - 3R3M	3.30	100	0.055	1.60
TC1608DC - 4R7M	4.70	100	0.060	1.40
TC1608DC - 6R8M	6.80	100	0.065	1.20
TC1608DC - 100M	10.00	100	0.075	1.00
TC1608DC - 150M	15.00	100	0.090	0.80
TC1608DC - 220M	22.00	100	0.110	0.70
TC1608DC - 330M	33.00	100	0.190	0.60
TC1608DC - 470M	47.00	100	0.230	0.50
TC1608DC - 680M	68.00	100	0.290	0.40
TC1608DC - 101M	100.00	100	0.480	0.30
TC1608DC - 151M	150.00	100	0.590	0.26
TC1608DC - 221M	220.00	100	0.770	0.22
TC1608DC - 331M	330.00	100	1.400	0.20
TC1608DC - 471M	470.00	100	1.800	0.19
TC1608DC - 681M	680.00	100	2.200	0.18
TC1608DC - 102M	1000.00	100	3.400	0.15
TC1608DC - 152M	1500.00	100	4.200	0.12

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SMD Power Inductors

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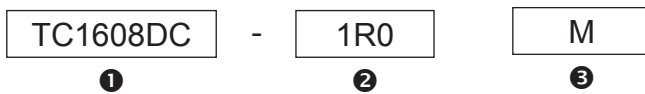
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TC1608DC - 222M	2200.00	100	8.500	0.10
TC1608DC - 332M	3300.00	100	11.000	0.08
TC1608DC - 472M	4700.00	100	13.900	0.06
TC1608DC - 682M	6800.00	100	25.000	0.04
TC1608DC - 103M	10000.00	100	32.800	0.02

Note: Test Freq.: 100KHz / 0.1V

Current (max) 30°C temperature rise

Operating Temp.: -40°C ~ +85°C

▶ How to Order



❶ SMT Shielded Power Inductors : TC1608DC

❷ Inductance

Code	Inductance
1R0	1.00μH
100	10.00μH
101	100.00μH

❸ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductor

Shielded Power Inductors - TC3316DC Series

Shielded Power Inductor Features

Magnetically shielded construction
Compact and thin

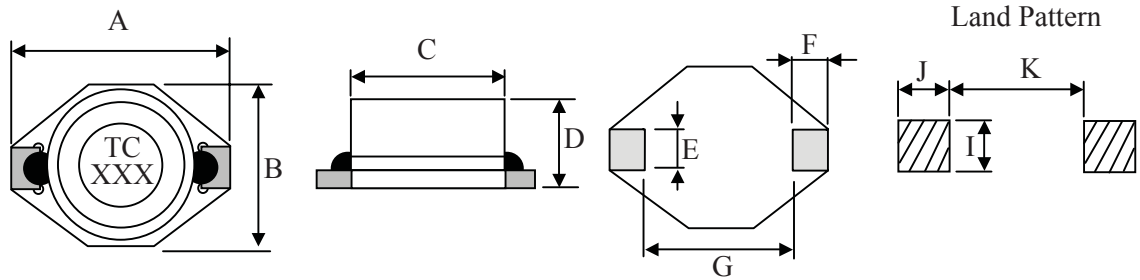
Shielded Power Inductor Applications

Notebook, DC/DC converter, Communication products

Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	I	J	K
TC3316DC	12.95	9.40	8.38	5.08	2.54	2.54	7.62	2.79	2.92	7.37

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TC3316DC Series Shielded Power Inductor

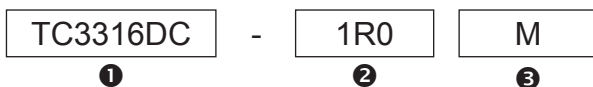
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TC3316DC - 1R0M	1.00	100	0.021	5.60
TC3316DC - 1R5M	1.50	100	0.022	5.20
TC3316DC - 2R2M	2.20	100	0.032	5.00
TC3316DC - 3R3M	3.30	100	0.039	3.90
TC3316DC - 4R7M	4.70	100	0.054	3.20
TC3316DC - 6R8M	6.80	100	0.075	2.80
TC3316DC - 100M	10.00	100	0.101	2.40
TC3316DC - 150M	15.00	100	0.150	2.00
TC3316DC - 220M	22.00	100	0.207	1.60
TC3316DC - 330M	33.00	100	0.334	1.40
TC3316DC - 470M	47.00	100	0.472	1.00

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.

How to Order



① SMT Power Inductors Shielded : TC3316DC

② Inductance

Code	Inductance
1R0	1.00μH
120	12.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

SMT Power Inductor - TC5022DC Shielded Series

SMT Power Inductor Features

- Magnetically shielded construction
- Compact size and thin
- Large Current and Low DCR

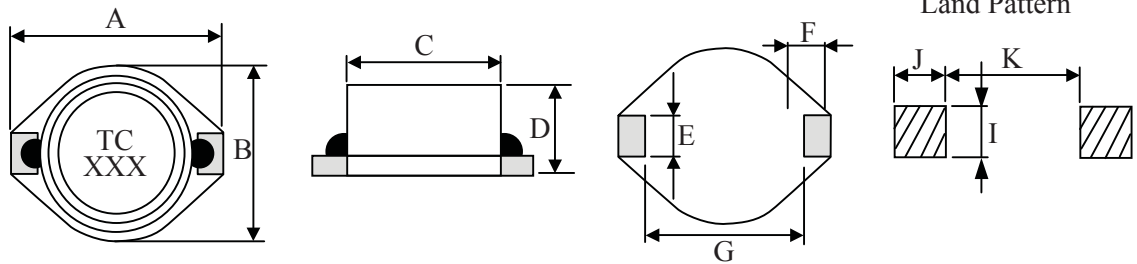
Applications

Notebook, DC/DC converter, VGA card, Video recorders.

SMT Power Inductor Shielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	I	J	K
TC5022DC	18.54	15.24	12.70	7.62	2.54	2.54	12.70	2.79	2.92	12.45

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TC5022DC Series SMT Power Inductor Shielded

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TC5022DC - 100M	10.00	100	0.040	8.00
TC5022DC - 150M	15.00	100	0.048	7.00
TC5022DC - 220M	22.00	100	0.059	6.00
TC5022DC - 330M	33.00	100	0.075	5.00
TC5022DC - 470M	47.00	100	0.097	4.00
TC5022DC - 680M	68.00	100	0.138	3.00
TC5022DC - 101M	100.00	100	0.207	2.40
TC5022DC - 151M	150.00	100	0.293	2.10
TC5022DC - 221M	220.00	100	0.470	1.90
TC5022DC - 331M	330.00	100	0.780	1.10
TC5022DC - 471M	470.00	100	1.080	1.10
TC5022DC - 681M	680.00	100	1.400	0.96
TC5022DC - 102M	1000.00	100	2.010	0.80

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

How to Order



① SMT Shielded Power Inductor : TC5022DC

② Inductance

Code	Inductance
100	10.00μH
101	100.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Shielded SMT Power Inductors - DS104/106/126C2 Series

Shielded SMT Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

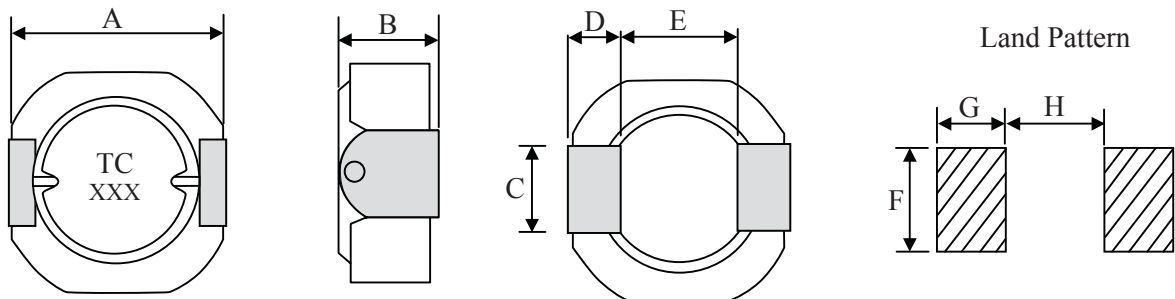
Applications

- TV game, Computer devices
- Ideal for a variety of DC/DC converter inductor applications.

Shielded SMT Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D ± 0.2	E(max)	F	G	H
TCDS104C2	10.4	4.8	3.0	2.0	6.0	3.6	2.65	5.4
TCDS106C2	10.4	6.8	3.0	2.0	6.0	3.6	2.65	5.4
TCDS126C2	12.8	6.8	3.0	2.0	8.5	3.6	2.60	7.9

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TCDS104C2 Series Shielded SMT Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCDS104C2 - 1R1N	1.10	100	0.011	11.70
TCDS104C2 - 1R8N	1.80	100	0.014	8.70
TCDS104C2 - 2R7N	2.70	100	0.016	7.30
TCDS104C2 - 3R9N	3.90	100	0.018	5.80
TCDS104C2 - 5R1N	5.10	100	0.026	4.90
TCDS104C2 - 6R8N	6.80	100	0.035	4.50
TCDS104C2 - 8R2N	8.20	100	0.040	4.10
TCDS104C2 - 100M	10.00	100	0.044	3.60
TCDS104C2 - 120M	12.00	100	0.051	3.30
TCDS104C2 - 150M	15.00	100	0.062	3.10
TCDS104C2 - 180M	18.00	100	0.079	2.70
TCDS104C2 - 220M	22.00	100	0.087	2.40
TCDS104C2 - 270M	27.00	100	0.100	2.20
TCDS104C2 - 330M	33.00	100	0.125	2.00
TCDS104C2 - 390M	39.00	100	0.150	1.80
TCDS104C2 - 470M	47.00	100	0.175	1.70
TCDS104C2 - 560M	56.00	100	0.195	1.50
TCDS104C2 - 680M	68.00	100	0.240	1.30
TCDS104C2 - 820M	82.00	100	0.295	1.20
TCDS104C2 - 101M	100.00	100	0.380	1.10
TCDS104C2 - 121M	120.00	100	0.460	0.97

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCDS106C2 Series Shielded SMT Power Inductors

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCDS106C2 - 1R1N	1.10	100	0.014	7.00
TCDS106C2 - 1R8N	1.80	100	0.018	6.50
TCDS106C2 - 2R7N	2.70	100	0.020	6.00
TCDS106C2 - 3R5N	3.50	100	0.022	5.60
TCDS106C2 - 4R7N	4.70	100	0.024	5.20
TCDS106C2 - 6R0N	6.00	100	0.026	4.80
TCDS106C2 - 7R5N	7.50	100	0.030	4.20
TCDS106C2 - 100M	10.00	100	0.035	4.00
TCDS106C2 - 120M	12.00	100	0.040	3.50
TCDS106C2 - 150M	15.00	100	0.050	3.20
TCDS106C2 - 180M	18.00	100	0.060	3.00
TCDS106C2 - 220M	22.00	100	0.065	2.60
TCDS106C2 - 270M	27.00	100	0.075	2.20
TCDS106C2 - 330M	33.00	100	0.095	2.00
TCDS106C2 - 390M	39.00	100	0.110	1.90
TCDS106C2 - 470M	47.00	100	0.135	1.80
TCDS106C2 - 560M	56.00	100	0.145	1.70
TCDS106C2 - 680M	68.00	100	0.155	1.60
TCDS106C2 - 820M	82.00	100	0.185	1.50
TCDS106C2 - 101M	100.00	100	0.220	1.40
TCDS106C2 - 121M	120.00	100	0.255	1.30
TCDS106C2 - 151M	150.00	100	0.280	1.10
TCDS106C2 - 181M	180.00	100	0.350	1.00
TCDS106C2 - 221M	220.00	100	0.460	0.85
TCDS106C2 - 271M	270.00	100	0.600	0.70
TCDS106C2 - 331M	330.00	100	0.700	0.60
TCDS106C2 - 391M	390.00	100	0.860	0.55
TCDS106C2 - 471M	470.00	100	1.100	0.53
TCDS106C2 - 561M	560.00	100	1.250	0.50
TCDS106C2 - 681M	680.00	100	1.500	0.47

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCDS126C2 Series Shielded SMT Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCDS126C2 - 1R7N	1.70	100	0.010	11.80
TCDS126C2 - 2R7N	2.70	100	0.011	9.00
TCDS126C2 - 3R9N	3.90	100	0.014	7.90
TCDS126C2 - 5R6N	5.60	100	0.016	6.80
TCDS126C2 - 7R5N	7.50	100	0.017	5.70
TCDS126C2 - 100N	10.00	100	0.023	5.50
TCDS126C2 - 120N	12.00	100	0.027	5.00
TCDS126C2 - 150N	15.00	100	0.032	4.50
TCDS126C2 - 180N	18.00	100	0.040	4.10
TCDS126C2 - 220N	22.00	100	0.046	3.60
TCDS126C2 - 270N	27.00	100	0.050	3.20
TCDS126C2 - 330M	33.00	100	0.064	3.00
TCDS126C2 - 390M	39.00	100	0.074	2.70
TCDS126C2 - 470M	47.00	100	0.082	2.40
TCDS126C2 - 560M	56.00	100	0.105	2.00
TCDS126C2 - 680M	68.00	100	0.120	1.70
TCDS126C2 - 820M	82.00	100	0.145	1.60
TCDS126C2 - 101M	100.00	100	0.170	1.50
TCDS126C2 - 121M	120.00	100	0.185	1.30
TCDS126C2 - 151M	150.00	100	0.235	1.20
TCDS126C2 - 181M	180.00	100	0.290	1.10
TCDS126C2 - 221M	220.00	100	0.350	1.00
TCDS126C2 - 271M	270.00	100	0.415	0.93
TCDS126C2 - 331M	330.00	100	0.495	0.83
TCDS126C2 - 391M	390.00	100	0.610	0.76
TCDS126C2 - 471M	470.00	100	0.705	0.67
TCDS126C2 - 561M	560.00	100	0.900	0.62
TCDS126C2 - 681M	680.00	100	1.120	0.55

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.

► How to Order

TCDS104C2 - 1R1 N

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②

③

① SMT Shielded Power Inductors: TCDS104C2, TCDS106C2, TCDS126C2

② Inductance

Code	Inductance
1R1	1.10μH
120	12.00μH
121	120.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Shielded Power Inductors - RH62B/64B Series

Shielded Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

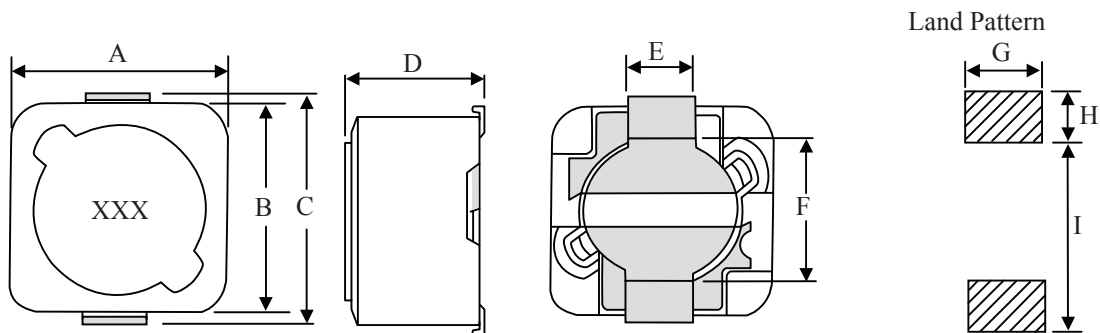
Shielded Power Inductor Applications

VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A ± 0.3	B ± 0.3	C ± 0.3	D(max)	E ± 0.2	F	G	H	I
TCRH62B	6.2	5.9	6.6	3.0	1.5	4.6	1.9	1.4	4.6
TCRH64B	6.2	5.9	6.6	5.0	1.5	4.6	1.9	1.4	4.6

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TCRH62B Series Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A) (max)
TCRH62B - 2R9N	2.90	7.96M	0.068	1.94
TCRH62B - 3R3N	3.30	7.96M	0.075	1.80
TCRH62B - 4R0N	4.00	7.96M	0.080	1.63
TCRH62B - 4R7N	4.70	7.96M	0.090	1.55
TCRH62B - 5R5N	5.50	7.96M	0.096	1.40
TCRH62B - 100M	10.00	1K	0.150	1.10
TCRH62B - 120M	12.00	1K	0.200	1.00
TCRH62B - 150M	15.00	1K	0.230	0.90
TCRH62B - 180M	18.00	1K	0.270	0.80
TCRH62B - 220M	22.00	1K	0.340	0.74
TCRH62B - 270M	27.00	1K	0.380	0.66
TCRH62B - 330M	33.00	1K	0.450	0.59
TCRH62B - 390M	39.00	1K	0.490	0.54
TCRH62B - 470M	47.00	1K	0.690	0.50
TCRH62B - 560M	56.00	1K	0.780	0.46
TCRH62B - 680M	68.00	1K	1.070	0.42
TCRH62B - 820M	82.00	1K	1.210	0.38
TCRH62B - 101M	100.00	1K	1.390	0.34
TCRH62B - 121M	120.00	1K	1.900	0.31

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SMD Power Inductors

Continued from the preceding page.

Part Number	Inductance (μH)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A) (max)
TCRH62B - 151M	150.00	1K	2.180	0.28
TCRH62B - 181M	180.00	1K	2.770	0.26
TCRH62B - 221M	220.00	1K	3.120	0.23
TCRH62B - 271M	270.00	1K	4.380	0.22
TCRH62B - 331M	330.00	1K	4.940	0.19

Note: 2R9~5R5 Test Freq.: 7.96MHz; 100~331 Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C

Inductance drop=25% typ. at IDC.

Electrical Characteristics for TCRH64B Series Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH64B - 2R9N	2.90	1	0.047	1.80
TCRH64B - 3R3N	3.30	1	0.050	1.75
TCRH64B - 4R0N	4.00	1	0.060	1.65
TCRH64B - 4R7N	4.70	1	0.065	1.55
TCRH64B - 5R5N	5.50	1	0.070	1.45
TCRH64B - 100M	10.00	1	0.120	1.35
TCRH64B - 120M	12.00	1	0.130	1.22
TCRH64B - 150M	15.00	1	0.180	1.11
TCRH64B - 180M	18.00	1	0.240	1.02
TCRH64B - 220M	22.00	1	0.270	0.91
TCRH64B - 270M	27.00	1	0.300	0.82
TCRH64B - 330M	33.00	1	0.330	0.74
TCRH64B - 390M	39.00	1	0.370	0.69
TCRH64B - 470M	47.00	1	0.520	0.62
TCRH64B - 560M	56.00	1	0.560	0.58
TCRH64B - 680M	68.00	1	0.630	0.51
TCRH64B - 820M	82.00	1	0.710	0.46
TCRH64B - 101M	100.00	1	1.030	0.42
TCRH64B - 121M	120.00	1	1.150	0.38
TCRH64B - 151M	150.00	1	1.680	0.35
TCRH64B - 181M	180.00	1	1.870	0.32
TCRH64B - 221M	220.00	1	2.080	0.29
TCRH64B - 271M	270.00	1	2.370	0.26
TCRH64B - 331M	330.00	1	2.670	0.23
TCRH64B - 391M	390.00	1	2.940	0.22
TCRH64B - 471M	470.00	1	3.930	0.20
TCRH64B - 561M	560.00	1	5.430	0.18
TCRH64B - 681M	680.00	1	7.320	0.17
TCRH64B - 821M	820.00	1	8.240	0.15
TCRH64B - 102M	1000.00	1	9.260	0.14

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

Operating Temp. : -40°C ~ +85°C

Inductance drop=25% typ. at IDC.





SMD Power Inductors

► How to Order

TCRH62B - 2R9 N

① ② ③

① SMT Shielded Power Inductors : TCRH62B, TCRH64B

② Inductance

Code	Inductance
2R9	2.90μH
120	12.00μH
121	120.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Shielded Power Inductor - TCRH73/74 Series

Shielded Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

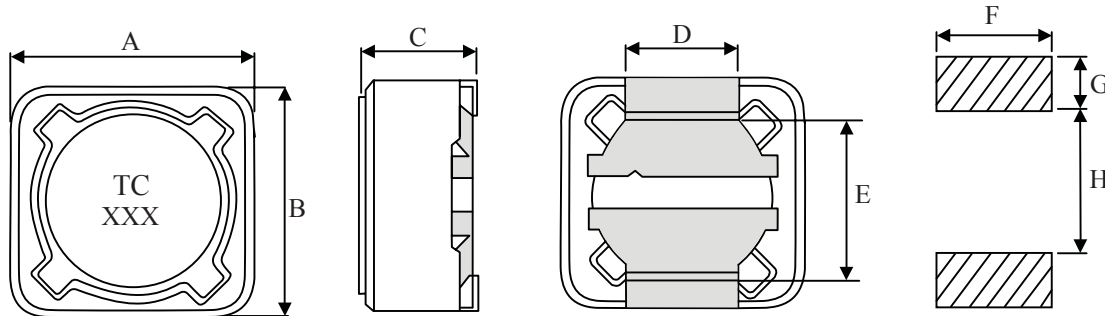
Shielded Power Inductor Applications

- VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D ± 0.2	E ± 0.2	F	G	H
TCRH73	7.5	7.5	3.4	2.7	5.1	3.1	1.6	4.8
TCRH74	7.5	7.5	4.5	2.7	5.1	3.1	1.6	4.8

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TCRH73 Series Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH73 - 100M	10.00	1	0.072	1.68
TCRH73 - 120M	12.00	1	0.098	1.52
TCRH73 - 150M	15.00	1	0.130	1.33
TCRH73 - 180M	18.00	1	0.140	1.20
TCRH73 - 220M	22.00	1	0.190	1.07
TCRH73 - 270M	27.00	1	0.210	0.96
TCRH73 - 330M	33.00	1	0.240	0.91
TCRH73 - 390M	39.00	1	0.320	0.77
TCRH73 - 470M	47.00	1	0.360	0.76
TCRH73 - 560M	56.00	1	0.470	0.68
TCRH73 - 680M	68.00	1	0.520	0.61
TCRH73 - 820M	82.00	1	0.690	0.57
TCRH73 - 101M	100.00	1	0.790	0.50
TCRH73 - 121M	120.00	1	0.890	0.49
TCRH73 - 151M	150.00	1	1.270	0.43
TCRH73 - 181M	180.00	1	1.450	0.39
TCRH73 - 221M	220.00	1	1.650	0.35
TCRH73 - 271M	270.00	1	2.310	0.32
TCRH73 - 331M	330.00	1	2.620	0.28
TCRH73 - 391M	390.00	1	2.940	0.26

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SMD Power Inductors

Continued from the preceding page.

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH73 - 471M	470.00	1	4.180	0.24
TCRH73 - 561M	560.00	1	4.670	0.22
TCRH73 - 681M	680.00	1	5.730	0.19
TCRH73 - 821M	820.00	1	6.540	0.18
TCRH73 - 102M	1000.00	1	9.440	0.16

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

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.

Electrical Characteristics for TCRH74 Series Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH74 - 100M	10.00	1	0.049	1.84
TCRH74 - 120M	12.00	1	0.058	1.71
TCRH74 - 150M	15.00	1	0.081	1.47
TCRH74 - 180M	18.00	1	0.091	1.31
TCRH74 - 220M	22.00	1	0.110	1.23
TCRH74 - 270M	27.00	1	0.150	1.12
TCRH74 - 330M	33.00	1	0.170	0.96
TCRH74 - 390M	39.00	1	0.230	0.91
TCRH74 - 470M	47.00	1	0.260	0.88
TCRH74 - 560M	56.00	1	0.350	0.75
TCRH74 - 680M	68.00	1	0.380	0.69
TCRH74 - 820M	82.00	1	0.430	0.61
TCRH74 - 101M	100.00	1	0.610	0.60
TCRH74 - 121M	120.00	1	0.660	0.52
TCRH74 - 151M	150.00	1	0.880	0.46
TCRH74 - 181M	180.00	1	0.980	0.42
TCRH74 - 221M	220.00	1	1.170	0.36
TCRH74 - 271M	270.00	1	1.640	0.34
TCRH74 - 331M	330.00	1	1.860	0.32
TCRH74 - 391M	390.00	1	2.850	0.29
TCRH74 - 471M	470.00	1	3.010	0.26
TCRH74 - 561M	560.00	1	3.620	0.23
TCRH74 - 681M	680.00	1	4.630	0.22
TCRH74 - 821M	820.00	1	5.200	0.20
TCRH74 - 102M	1000.00	1	6.000	0.18

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

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► How to Order

1 TCRH73 - **2** 100 **3** M

1 SMT Shielded Power Inductor: TCRH73, TCRH74

2 Inductance

Code	Inductance
100	10.00 μ H
101	100.00 μ H

3 Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Shielded Power Inductor - TCRH124/125/127 Series

Shielded Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

Applications

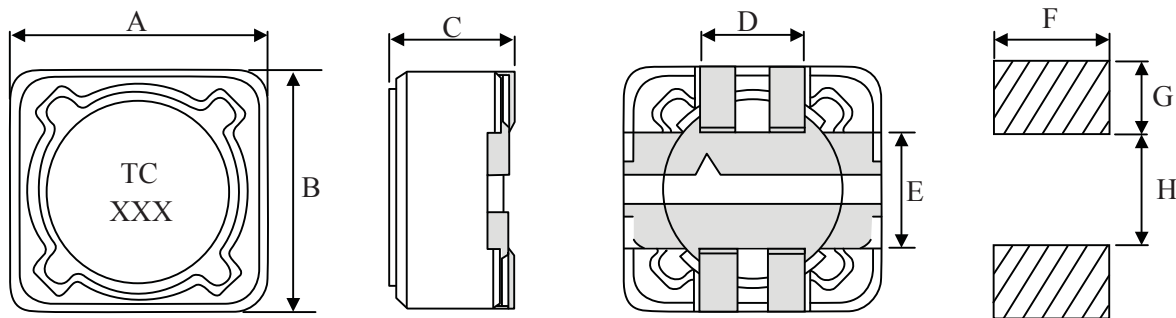
VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D ± 0.2	E ± 0.2	F	G	H
TCRH124	12.3	12.3	4.5	5.0	7.6	5.4	2.8	7.0
TCRH125	12.3	12.3	6.0	5.0	7.6	5.4	2.8	7.0
TCRH127	12.3	12.3	8.0	5.0	7.6	5.4	2.9	7.0

Note: Design as Customer's Requested Specifications.

Land Pattern



Electrical Characteristics for TCRH124 Series Shielded Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH124 - 3R9N	3.90	100	0.015	6.50
TCRH124 - 4R7N	4.70	100	0.018	5.70
TCRH124 - 6R8N	6.80	100	0.023	4.90
TCRH124 - 8R2N	8.20	100	0.026	4.60
TCRH124 - 100M	10.00	100	0.028	4.50
TCRH124 - 120M	12.00	100	0.038	4.00
TCRH124 - 150M	15.00	100	0.050	3.20
TCRH124 - 180M	18.00	100	0.057	3.10
TCRH124 - 220M	22.00	100	0.066	2.90
TCRH124 - 270M	27.00	100	0.080	2.80
TCRH124 - 330M	33.00	100	0.097	2.70
TCRH124 - 390M	39.00	100	0.132	2.10
TCRH124 - 470M	47.00	100	0.160	1.90
TCRH124 - 560M	56.00	100	0.190	1.80
TCRH124 - 680M	68.00	100	0.220	1.50
TCRH124 - 820M	82.00	100	0.260	1.30
TCRH124 - 101M	100.00	100	0.308	1.20
TCRH124 - 121M	120.00	100	0.380	1.10

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SMD Power Inductors

Continued from the preceding page.

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH124 - 151M	150.00	100	0.530	0.95
TCRH124 - 181M	180.00	100	0.620	0.85
TCRH124 - 221M	220.00	100	0.700	0.80
TCRH124 - 271M	270.00	100	0.870	0.60
TCRH124 - 331M	330.00	100	0.990	0.50

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C .

Inductance drop=25% typ. at IDC.

Electrical Characteristics for TCRH125 Series Shielded Power Inductor

Part Number	Inductance (μ H)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A) (max)
TCRH125 - 1R3N	1.30	7.96M	0.012	8.00
TCRH125 - 2R1N	2.10	7.96M	0.014	7.00
TCRH125 - 3R1N	3.10	7.96M	0.017	6.00
TCRH125 - 4R4N	4.40	7.96M	0.020	5.00
TCRH125 - 5R8N	5.80	7.96M	0.021	4.40
TCRH125 - 7R5N	7.50	7.96M	0.024	4.20
TCRH125 - 100M	10.00	1K	0.025	4.00
TCRH125 - 120M	12.00	1K	0.027	3.50
TCRH125 - 150M	15.00	1K	0.030	3.30
TCRH125 - 180M	18.00	1K	0.034	3.00
TCRH125 - 220M	22.00	1K	0.036	2.80
TCRH125 - 270M	27.00	1K	0.051	2.30
TCRH125 - 330M	33.00	1K	0.057	2.10
TCRH125 - 390M	39.00	1K	0.068	2.00
TCRH125 - 470M	47.00	1K	0.075	1.80
TCRH125 - 560M	56.00	1K	0.110	1.70
TCRH125 - 680M	68.00	1K	0.120	1.50
TCRH125 - 820M	82.00	1K	0.140	1.40
TCRH125 - 101M	100.00	1K	0.160	1.30
TCRH125 - 121M	120.00	1K	0.170	1.10
TCRH125 - 151M	150.00	1K	0.230	1.00
TCRH125 - 181M	180.00	1K	0.290	0.90
TCRH125 - 221M	220.00	1K	0.400	0.80
TCRH125 - 271M	270.00	1K	0.460	0.75
TCRH125 - 331M	330.00	1K	0.510	0.68
TCRH125 - 391M	390.00	1K	0.690	0.65
TCRH125 - 471M	470.00	1K	0.770	0.58
TCRH125 - 561M	560.00	1K	0.860	0.54
TCRH125 - 681M	680.00	1K	1.200	0.48
TCRH125 - 821M	820.00	1K	1.340	0.43
TCRH125 - 102M	1000.00	1K	1.530	0.40

Note: 100~102 Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCRH127 Series Shielded Power Inductor

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH127 - 1R2N	1.20	100	0.0070	9.80
TCRH127 - 2R4N	2.40	100	0.0115	8.00
TCRH127 - 3R5N	3.50	100	0.0135	7.50
TCRH127 - 4R7N	4.70	100	0.0158	6.80
TCRH127 - 6R1N	6.10	100	0.0176	6.60
TCRH127 - 7R6N	7.60	100	0.0200	5.90
TCRH127 - 100M	10.00	1	0.0216	5.40
TCRH127 - 120M	12.00	1	0.0243	4.90
TCRH127 - 150M	15.00	1	0.0270	4.50
TCRH127 - 180M	18.00	1	0.0392	3.90
TCRH127 - 220M	22.00	1	0.0432	3.60
TCRH127 - 270M	27.00	1	0.0459	3.40
TCRH127 - 330M	33.00	1	0.0648	3.00
TCRH127 - 390M	39.00	1	0.0729	2.75
TCRH127 - 470M	47.00	1	0.100	2.50
TCRH127 - 560M	56.00	1	0.110	2.35
TCRH127 - 680M	68.00	1	0.140	2.10
TCRH127 - 820M	82.00	1	0.160	1.95
TCRH127 - 101M	100.00	1	0.220	1.70
TCRH127 - 121M	120.00	1	0.250	1.60
TCRH127 - 151M	150.00	1	0.280	1.42
TCRH127 - 181M	180.00	1	0.350	1.30
TCRH127 - 221M	220.00	1	0.390	1.16
TCRH127 - 271M	270.00	1	0.560	1.06
TCRH127 - 331M	330.00	1	0.640	0.95
TCRH127 - 391M	390.00	1	0.700	0.88
TCRH127 - 471M	470.00	1	0.980	0.79
TCRH127 - 561M	560.00	1	1.070	0.73
TCRH127 - 681M	680.00	1	1.460	0.67
TCRH127 - 821M	820.00	1	1.640	0.60
TCRH127 - 102M	1000.00	1	1.820	0.55

Note: 1R2 ~ 7R6 Test Freq.: 100KHz / 0.1V ; 100 ~ 102 Test Freq. : 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC





SMD Power Inductors

► How to Order

TCRH124 - 3R9 M

① ② ③

① Shielded Power Inductor : TCRH124, TCRH125, TCRH127

② Inductance

Code	Inductance
1R2	1.20 μ H
100	10.00 μ H
101	100.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Shielded SMT Power Inductor - TCRH124B/125B/127B Series

Shielded SMT Power Inductor Features

- Magnetically shielded construction.
- Compact Size and thin
- Large Current and Low DCR

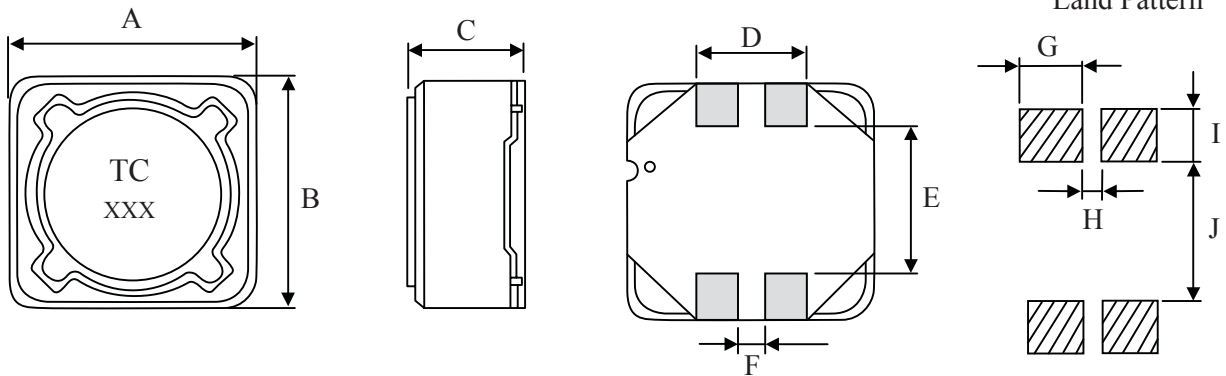
Applications

VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

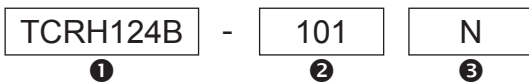
Shielded SMT Power Inductor Dimensions & Configurations

Type	A ± 0.3	B ± 0.3	C(max)	D ± 0.2	E ± 0.2	F ± 0.2	G	H	I	J
TCRH124B	12.2	12.2	4.7	5.0	7.6	1.6	2.0	1.4	2.5	7.2
TCRH125B	12.2	12.2	6.2	5.0	7.6	1.6	2.0	1.4	2.5	7.2
TCRH127B	12.2	12.2	8.0	5.0	7.6	1.6	2.0	1.4	2.5	7.2

Note: Design as Customer's Requested Specifications.



How to Order



① Shielded SMT Power Inductor : TCRH124B, TCRH125B, TCRH127B

② Inductance

③ Tolerance

Code	Type
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Power Inductor SMT Shielded - TCRH103R/104R/105R Series

► Power Inductor SMT Shielded Features

- Magnetically shielded construction
- Compact and thin
- Wire burst resistant due to special construction.

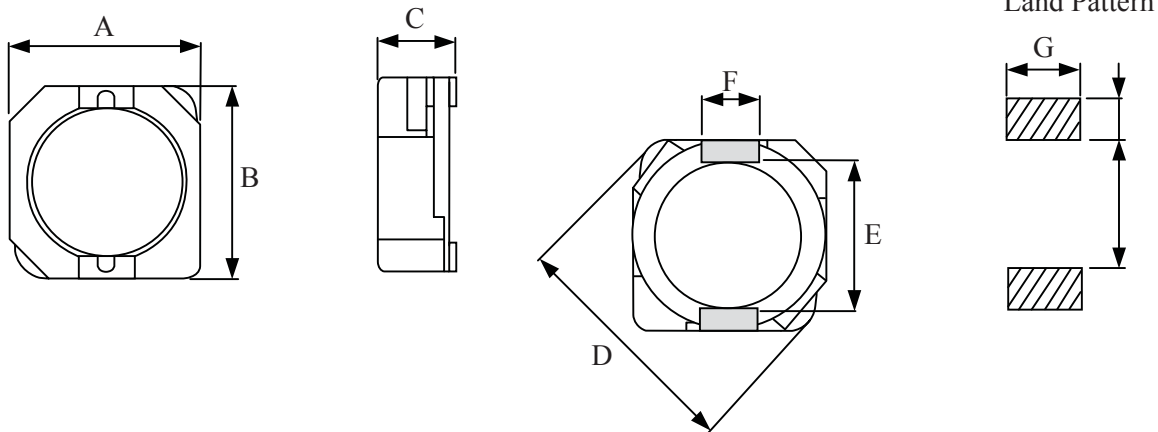
► Applications

DC-DC converter transformer, LCD TV, Notebook, VCR Camera.

► Power Inductor SMT Shielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D(max)	E ± 0.3	F ± 0.1	G	H	I
TCRH103R	10.3	10.4	3.0	13.5	7.7	3.0	3.6	1.7	7.3
TCRH104R	10.3	10.4	4.0	13.5	7.7	3.0	3.6	1.7	7.3
TCRH105R	10.3	10.4	5.0	13.5	7.7	3.0	3.6	1.7	7.3

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCRH103R Series Power Inductor SMT Shielded

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH103R - 100M	10.00	100	0.0581	2.70
TCRH103R - 120M	12.00	100	0.0721	2.25
TCRH103R - 150M	15.00	100	0.0865	2.22
TCRH103R - 180M	18.00	100	0.1161	1.90
TCRH103R - 220M	22.00	100	0.1454	1.78
TCRH103R - 270M	27.00	100	0.1759	1.63
TCRH103R - 330M	33.00	100	0.2134	1.46
TCRH103R - 390M	39.00	100	0.2689	1.32
TCRH103R - 470M	47.00	100	0.2986	1.18
TCRH103R - 560M	56.00	100	0.3358	1.10
TCRH103R - 680M	68.00	100	0.4513	1.04
TCRH103R - 820M	82.00	100	0.5138	0.94
TCRH103R - 101M	100.00	100	0.7000	0.84
TCRH103R - 121M	120.00	100	0.7650	0.76
TCRH103R - 151M	150.00	100	0.8763	0.70

Note: Test Freq.: 100KHz / 1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=25% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCRH104R Series Power Inductor SMT Shielded

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)	Irms (A) (max)
TCRH104R - 1R3N	1.30	100	0.0081	10.0	6.50
TCRH104R - 2R5N	2.50	100	0.010	7.50	6.10
TCRH104R - 3R8N	3.80	100	0.013	6.00	5.50
TCRH104R - 5R2N	5.20	100	0.022	5.50	5.40
TCRH104R - 7R0N	7.00	100	0.027	4.80	4.50
TCRH104R - 100M	10.00	100	0.035	4.40	3.80
TCRH104R - 150M	15.00	100	0.050	3.60	3.10
TCRH104R - 220M	22.00	100	0.073	2.90	2.50
TCRH104R - 330M	33.00	100	0.093	2.30	2.20
TCRH104R - 470M	47.00	100	0.128	2.10	1.90
TCRH104R - 680M	68.00	100	0.213	1.50	1.42
TCRH104R - 101M	100.00	100	0.304	1.35	1.25
TCRH104R - 151M	150.00	100	0.506	1.15	0.85
TCRH104R - 221M	220.00	100	0.756	0.92	0.70
TCRH104R - 331M	330.00	100	1.090	0.70	0.52

Note: Test Freq.: 100KHz / 1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.

$\Delta T=40^\circ\text{C}$ rise at Irms.

► Electrical Characteristics for TCRH105R Series Power Inductor SMT Shielded

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH105R - 100M	10.00	100	0.0258	3.45
TCRH105R - 120M	12.00	100	0.0320	3.40
TCRH105R - 150M	15.00	100	0.0400	2.83
TCRH105R - 180M	18.00	100	0.0460	2.62
TCRH105R - 220M	22.00	100	0.0585	2.44
TCRH105R - 270M	27.00	100	0.0654	2.24
TCRH105R - 330M	33.00	100	0.0814	1.88
TCRH105R - 390M	39.00	100	0.1031	1.70
TCRH105R - 470M	47.00	100	0.1221	1.56
TCRH105R - 560M	56.00	100	0.1448	1.39
TCRH105R - 680M	68.00	100	0.1930	1.36
TCRH105R - 820M	82.00	100	0.2194	1.20
TCRH105R - 101M	100.00	100	0.2470	1.09
TCRH105R - 121M	120.00	100	0.2984	1.00
TCRH105R - 151M	150.00	100	0.3551	0.91
TCRH105R - 181M	180.00	100	0.3943	0.84
TCRH105R - 221M	220.00	100	0.4838	0.75
TCRH105R - 271M	270.00	100	0.6325	0.68
TCRH105R - 331M	330.00	100	0.7800	0.60

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SMD Power Inductors

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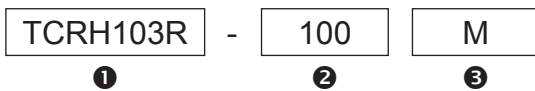
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH105R - 391M	390.00	100	0.9575	0.57
TCRH105R - 471M	470.00	100	1.2204	0.50
TCRH105R - 561M	560.00	100	1.3524	0.47
TCRH105R - 681M	680.00	100	1.5192	0.43
TCRH105R - 821M	820.00	100	1.6944	0.39
TCRH105R - 102M	1000.00	100	1.9464	0.35

Note: Test Freq.: 100KHz / 1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=25% typ. at IDC.

How to Order



① SMT Shielded Power Inductor : TCRH103R , TCRH104R , TCRH105R

② Inductance

Code	Inductance
100	10.00 μH
101	100.00 μH
102	1000.00 μH

② Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Shielded Power Inductor - TCRH2D18A/3D16A Series

Shielded Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

Applications

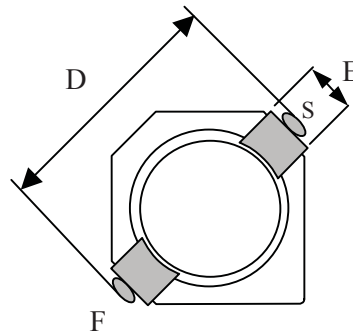
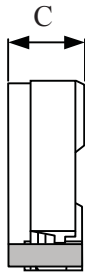
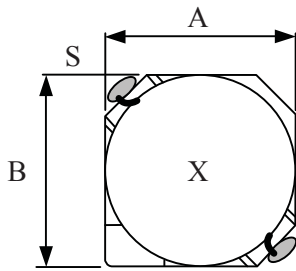
- DC-DC converter of portable equipment.
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook.

Shielded Power Inductor Dimensions & Configurations (Unit In mm)

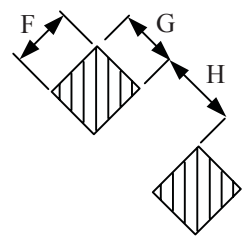
Type	A(max)	B(max)	C(max)	D(max)	E(Ref.)	F	G	H
TCRH2D18A	3.2	3.2	2.0	4.3	1.0	1.3	1.3	1.7
TCRH3D16A	4.0	4.0	1.8	5.2	1.0	1.3	1.4	2.4

Note: Design as Customer's Requested Specifications.

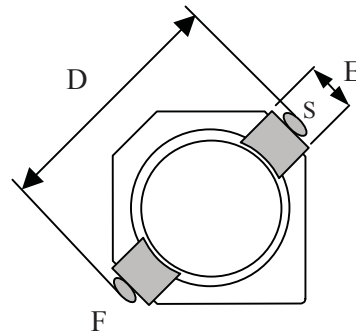
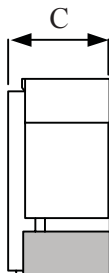
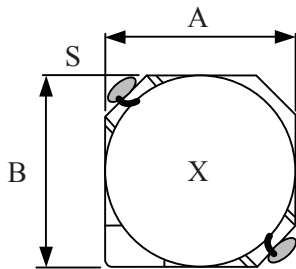
TCRH2D18A



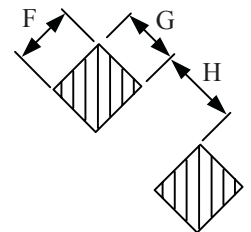
Land Pattern



TCRH3D16A



Land Pattern





SMD Power Inductors

► Electrical Characteristics for TCRH2D18A Series Shielded Power Inductors

Part Number	MARK	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH2D18A - 2R2N	C	2.20	100	0.043	0.85
TCRH2D18A - 3R3N	D	3.30	100	0.060	0.77
TCRH2D18A - 4R7N	F	4.70	100	0.081	0.63
TCRH2D18A - 6R8N	I	6.80	100	0.108	0.57
TCRH2D18A - 100N	K	10.00	100	0.201	0.45
TCRH2D18A - 150N	M	15.00	100	0.227	0.35
TCRH2D18A - 220N	O	22.00	100	0.331	0.30
TCRH2D18A - 330N	Q	33.00	100	0.481	0.23

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C

Inductance drop=35% typ. at IDC.

► Electrical Characteristics for TCRH3D16A Series Shielded Power Inductors

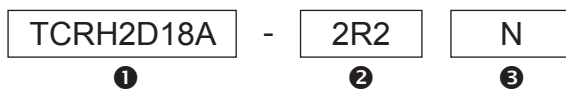
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH3D16A - 1R5N	1.50	100	0.052	1.55
TCRH3D16A - 2R2N	2.20	100	0.072	1.20
TCRH3D16A - 3R3N	3.30	100	0.085	1.10
TCRH3D16A - 4R7N	4.70	100	0.105	0.90
TCRH3D16A - 6R8N	6.80	100	0.170	0.73
TCRH3D16A - 100N	10.00	100	0.210	0.55
TCRH3D16A - 150N	15.00	100	0.295	0.45
TCRH3D16A - 220N	22.00	100	0.430	0.40
TCRH3D16A - 330N	33.00	100	0.675	0.32

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: - 40°C ~ +85°C.

Inductance drop=35% typ. at IDC.

► How to Order



❶ Shielded Power Inductors:TCRH2D18A , TCRH3D16A

❷ Inductance

Code	Inductance
1R5	1.50μH
100	10.00μH

❸ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Power Inductor - TCRH SMT Shielded Series

► Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

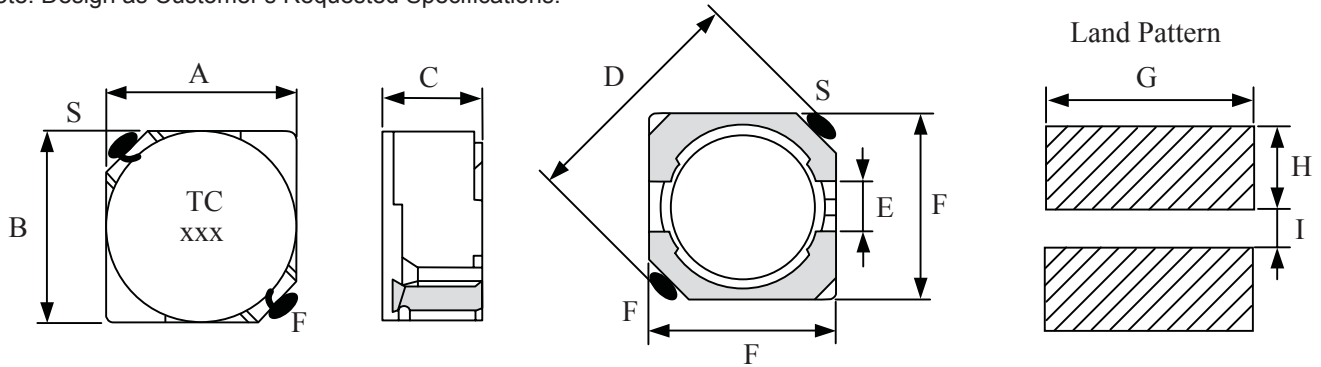
► Applications

- DC-DC converter of portable equipment.
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook.

► Power Inductor Dimensions & Configurations (Unit In mm)

Type	A±0.3	B±0.3	C(max)	D(max)	E(Ref.)	F(Ref.)	G	H	I
TCRH4D18	4.7	4.7	2.0	6.9	1.5	4.5	5.3	1.90	1.5
TCRH4D28	4.7	4.7	3.0	6.9	1.5	4.5	5.3	1.90	1.5
TCRH5D18	5.7	5.7	2.0	8.2	2.0	5.5	6.3	2.15	2.0
TCRH5D28	5.7	5.7	3.0	8.2	2.0	5.5	6.3	2.15	2.0
TCRH6D28	6.7	6.7	3.0	9.5	2.0	6.5	7.3	2.65	2.0
TCRH6D38	6.7	6.7	4.0	9.5	2.0	6.5	7.3	2.65	2.0

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCRH4D18 SMT Shielded Series Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH4D18 - 1R0N	1.00	100	0.045	1.72
TCRH4D18 - 2R2N	2.20	100	0.075	1.32
TCRH4D18 - 2R7N	2.70	100	0.105	1.28
TCRH4D18 - 3R3N	3.30	100	0.110	1.04
TCRH4D18 - 3R9N	3.90	100	0.155	0.88
TCRH4D18 - 4R7N	4.70	100	0.162	0.84
TCRH4D18 - 5R6N	5.60	100	0.170	0.80
TCRH4D18 - 6R8N	6.80	100	0.200	0.76
TCRH4D18 - 8R2N	8.20	100	0.245	0.68
TCRH4D18 - 100M	10.00	100	0.200	0.61
TCRH4D18 - 120M	12.00	100	0.210	0.56
TCRH4D18 - 150M	15.00	100	0.240	0.50
TCRH4D18 - 180M	18.00	100	0.338	0.48
TCRH4D18 - 220M	22.00	100	0.397	0.41
TCRH4D18 - 270M	27.00	100	0.441	0.35
TCRH4D18 - 330M	33.00	100	0.694	0.32
TCRH4D18 - 390M	39.00	100	0.709	0.30

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SMD Power Inductors

Continued from the preceding page.

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH4D18 - 470M	47.00	100	0.922	0.28
TCRH4D18 - 560M	56.00	100	1.080	0.26
TCRH4D18 - 680M	68.00	100	1.300	0.24
TCRH4D18 - 820M	82.00	100	1.550	0.22
TCRH4D18 - 101M	100.00	100	1.730	0.20
TCRH4D18 - 121M	120.00	100	2.390	0.18
TCRH4D18 - 151M	150.00	100	2.670	0.15
TCRH4D18 - 181M	180.00	100	4.000	0.14

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.

Electrical Characteristics for TCRH4D28 SMT Shielded Series Power Inductor

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH4D28 - 1R2N	1.20	100	0.0236	2.56
TCRH4D28 - 1R8N	1.80	100	0.0275	2.20
TCRH4D28 - 2R2N	2.20	100	0.0313	2.04
TCRH4D28 - 2R7N	2.70	100	0.0433	1.60
TCRH4D28 - 3R3N	3.30	100	0.0492	1.57
TCRH4D28 - 3R9N	3.90	100	0.0648	1.44
TCRH4D28 - 4R7N	4.70	100	0.0720	1.32
TCRH4D28 - 5R6N	5.60	100	0.1009	1.17
TCRH4D28 - 6R8N	6.80	100	0.1089	1.12
TCRH4D28 - 8R2N	8.20	100	0.1175	1.04
TCRH4D28 - 100M	10.00	100	0.1283	1.00
TCRH4D28 - 120M	12.00	100	0.1316	0.84
TCRH4D28 - 150M	15.00	100	0.1490	0.76
TCRH4D28 - 180M	18.00	100	0.1660	0.72
TCRH4D28 - 220M	22.00	100	0.2350	0.70
TCRH4D28 - 270M	27.00	100	0.2610	0.58
TCRH4D28 - 330M	33.00	100	0.3780	0.56
TCRH4D28 - 390M	39.00	100	0.3837	0.50
TCRH4D28 - 470M	47.00	100	0.5870	0.48
TCRH4D28 - 560M	56.00	100	0.6245	0.41
TCRH4D28 - 680M	68.00	100	0.6990	0.35
TCRH4D28 - 820M	82.00	100	0.9148	0.32
TCRH4D28 - 101M	100.00	100	1.020	0.29
TCRH4D28 - 121M	120.00	100	1.270	0.27
TCRH4D28 - 151M	150.00	100	1.350	0.24
TCRH4D28 - 181M	180.00	100	1.540	0.22
TCRH4D28 - 221M	220.00	100	1.720	0.20
TCRH4D28 - 271M	270.00	100	1.950	0.16
TCRH4D28 - 331M	330.00	100	2.660	0.14
TCRH4D28 - 391M	390.00	100	2.830	0.13

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCRH5D18 SMT Shielded Series Power Inductor

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH5D18 - 4R1N	4.10	10	0.057	1.95
TCRH5D18 - 5R4N	5.40	10	0.076	1.60
TCRH5D18 - 6R2N	6.20	10	0.096	1.40
TCRH5D18 - 8R9N	8.90	10	0.116	1.25
TCRH5D18 - 100M	10.00	10	0.124	1.20
TCRH5D18 - 120M	12.00	10	0.153	1.10
TCRH5D18 - 150M	15.00	10	0.196	0.97
TCRH5D18 - 180M	18.00	10	0.210	0.85
TCRH5D18 - 220M	22.00	10	0.290	0.80
TCRH5D18 - 270M	27.00	10	0.330	0.75
TCRH5D18 - 330M	33.00	10	0.386	0.65
TCRH5D18 - 390M	39.00	10	0.520	0.57
TCRH5D18 - 470M	47.00	10	0.595	0.54
TCRH5D18 - 560M	56.00	10	0.665	0.50
TCRH5D18 - 680M	68.00	10	0.840	0.43
TCRH5D18 - 820M	82.00	10	0.978	0.41
TCRH5D18 - 101M	100.00	10	1.200	0.36
TCRH5D18 - 121M	120.00	10	1.500	0.33
TCRH5D18 - 151M	150.00	10	1.710	0.31
TCRH5D18 - 181M	180.00	10	2.240	0.28
TCRH5D18 - 221M	220.00	10	2.440	0.23
TCRH5D18 - 271M	270.00	10	3.380	0.21
TCRH5D18 - 331M	330.00	10	4.340	0.18

Note: Test Freq.: 10KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCRH5D28 SMT Shielded Series Power Inductor

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH5D28 - 2R6N	2.60	10	0.018	2.60
TCRH5D28 - 3R0N	3.00	10	0.024	2.40
TCRH5D28 - 4R2N	4.20	10	0.031	2.20
TCRH5D28 - 5R3N	5.30	10	0.038	1.90
TCRH5D28 - 6R2N	6.20	10	0.045	1.80
TCRH5D28 - 8R2N	8.20	10	0.053	1.60
TCRH5D28 - 100M	10.00	10	0.065	1.30
TCRH5D28 - 120M	12.00	10	0.076	1.20
TCRH5D28 - 150M	15.00	10	0.103	1.10
TCRH5D28 - 180M	18.00	10	0.110	1.00
TCRH5D28 - 220M	22.00	10	0.122	0.90
TCRH5D28 - 270M	27.00	10	0.175	0.85
TCRH5D28 - 330M	33.00	10	0.189	0.75
TCRH5D28 - 390M	39.00	10	0.212	0.70
TCRH5D28 - 470M	47.00	10	0.260	0.62
TCRH5D28 - 560M	56.00	10	0.305	0.58
TCRH5D28 - 680M	68.00	10	0.355	0.52
TCRH5D28 - 820M	82.00	10	0.463	0.46
TCRH5D28 - 101M	100.00	10	0.520	0.42
TCRH5D28 - 121M	120.00	10	0.560	0.40
TCRH5D28 - 151M	150.00	10	0.680	0.35
TCRH5D28 - 181M	180.00	10	0.930	0.32
TCRH5D28 - 221M	220.00	10	1.150	0.30
TCRH5D28 - 271M	270.00	10	1.560	0.27
TCRH5D28 - 331M	330.00	10	1.980	0.25
TCRH5D28 - 391M	390.00	10	2.500	0.22
TCRH5D28 - 471M	470.00	10	2.700	0.20
TCRH5D28 - 561M	560.00	10	3.120	0.18
TCRH5D28 - 681M	680.00	10	4.150	0.16

Note: Test Freq.: 10KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.





SMD Power Inductors

► Electrical Characteristics for TCRH6D28 SMT Shielded Series Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH6D28 - 3R0N	3.00	10	0.024	3.00
TCRH6D28 - 3R9N	3.90	10	0.027	2.60
TCRH6D28 - 5R0N	5.00	10	0.031	2.40
TCRH6D28 - 6R0N	6.00	10	0.035	2.25
TCRH6D28 - 7R3N	7.30	10	0.054	2.10
TCRH6D28 - 8R6N	8.60	10	0.058	1.85
TCRH6D28 - 100M	10.00	10	0.065	1.70
TCRH6D28 - 120M	12.00	10	0.070	1.55
TCRH6D28 - 150M	15.00	10	0.084	1.40
TCRH6D28 - 180M	18.00	10	0.095	1.32
TCRH6D28 - 220M	22.00	10	0.128	1.20
TCRH6D28 - 270M	27.00	10	0.142	1.05
TCRH6D28 - 330M	33.00	10	0.165	0.97
TCRH6D28 - 390M	39.00	10	0.210	0.86
TCRH6D28 - 470M	47.00	10	0.238	0.80
TCRH6D28 - 560M	56.00	10	0.277	0.73
TCRH6D28 - 680M	68.00	10	0.304	0.65
TCRH6D28 - 820M	82.00	10	0.390	0.60
TCRH6D28 - 101M	100.00	10	0.535	0.54
TCRH6D28 - 121M	120.00	10	0.750	0.51
TCRH6D28 - 151M	150.00	10	0.950	0.47
TCRH6D28 - 181M	180.00	10	1.200	0.41
TCRH6D28 - 221M	220.00	10	1.500	0.37
TCRH6D28 - 271M	270.00	10	1.700	0.33
TCRH6D28 - 331M	330.00	10	2.150	0.28
TCRH6D28 - 391M	390.00	10	2.250	0.27
TCRH6D28 - 471M	470.00	10	3.150	0.21
TCRH6D28 - 561M	560.00	10	3.750	0.20
TCRH6D28 - 681M	680.00	10	5.150	0.20

Note: Test Freq.: 10KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.



Inductor

► Electrical Characteristics for TCRH6D38 SMT Shielded Series Power Inductors

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCRH6D38 - 3R3N	3.30	10	0.020	3.50
TCRH6D38 - 5R0N	5.00	10	0.024	2.90
TCRH6D38 - 6R2N	6.20	10	0.027	2.50
TCRH6D38 - 7R4N	7.40	10	0.031	2.30
TCRH6D38 - 8R7N	8.70	10	0.034	2.20
TCRH6D38 - 100M	10.00	10	0.038	2.00
TCRH6D38 - 120M	12.00	10	0.053	1.70
TCRH6D38 - 150M	15.00	10	0.057	1.60
TCRH6D38 - 180M	18.00	10	0.092	1.50
TCRH6D38 - 220M	22.00	10	0.096	1.30
TCRH6D38 - 270M	27.00	10	0.109	1.20
TCRH6D38 - 330M	33.00	10	0.124	1.10
TCRH6D38 - 390M	39.00	10	0.138	1.00
TCRH6D38 - 470M	47.00	10	0.155	0.95
TCRH6D38 - 560M	56.00	10	0.202	0.85
TCRH6D38 - 680M	68.00	10	0.234	0.75
TCRH6D38 - 820M	82.00	10	0.324	0.70
TCRH6D38 - 101M	100.00	10	0.358	0.65
TCRH6D38 - 121M	120.00	10	0.470	0.59
TCRH6D38 - 151M	150.00	10	0.580	0.54
TCRH6D38 - 181M	180.00	10	0.690	0.49
TCRH6D38 - 221M	220.00	10	0.890	0.43
TCRH6D38 - 271M	270.00	10	1.290	0.40
TCRH6D38 - 331M	330.00	10	1.700	0.37
TCRH6D38 - 391M	390.00	10	1.750	0.34
TCRH6D38 - 471M	470.00	10	2.200	0.32
TCRH6D38 - 561M	560.00	10	2.850	0.29
TCRH6D38 - 681M	680.00	10	3.200	0.25
TCRH6D38 - 821M	820.00	10	4.050	0.22
TCRH6D38 - 102M	1000.00	10	5.700	0.20

Note: Test Freq.: 10KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC





Inductor

► How to Order

TCRH4D18 - 1R0 M

① ② ③

① SMT Shielded Power Inductor : TCRH4D18, TCRH4D28, TCRH5D18, TCRH5D28, TCRH6D28, TCRH6D38.

② Inductance

Code	Inductance
1R0	1.00μH
120	12.00μH
121	120.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





Inductor

Shielded Power Inductor - TCRH8D28/43 Series

Shielded Power Inductor Features

- Magnetically shielded construction
- Compact size and thin
- Large Current and Low DCR

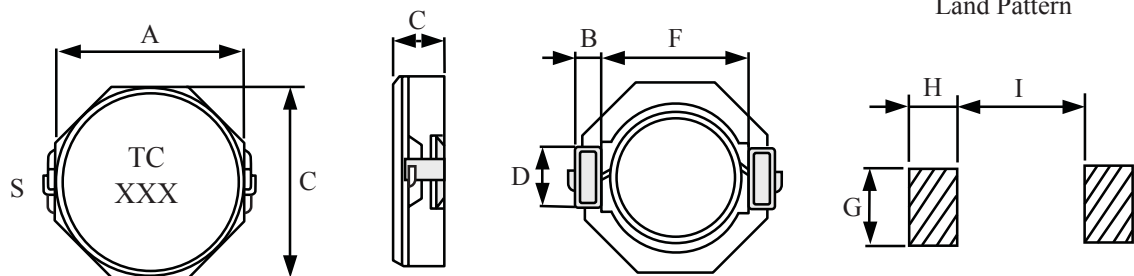
Applications

- DC-DC converter of portable equipment
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook.

Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D	E	F	G	H	I
TCRH8D28	8.3	8.3	3.0	2.5	1.2	6.3	2.8	2.0	6.1
TCRH8D43	8.3	8.3	4.5	2.5	1.2	6.3	2.8	2.0	6.1

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TCRH8D28 Series Shielded Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)	Irms (A)(max)
TCRH8D28 - 2R5N	2.50	100	0.015	4.50	4.90
TCRH8D28 - 3R3N	3.30	100	0.018	4.00	4.40
TCRH8D28 - 4R7N	4.70	100	0.024	3.40	4.10
TCRH8D28 - 7R3N	7.30	100	0.038	2.80	3.10
TCRH8D28 - 100N	10.00	100	0.042	2.30	2.80
TCRH8D28 - 150N	15.00	100	0.066	1.90	2.10
TCRH8D28 - 220N	22.00	100	0.095	1.60	1.80
TCRH8D28 - 330N	33.00	100	0.150	1.30	1.30
TCRH8D28 - 470N	47.00	100	0.190	1.15	1.10
TCRH8D28 - 680M	68.00	100	0.280	0.92	0.83
TCRH8D28 - 101M	100.00	100	0.410	0.75	0.70

Note: Test Freq.: 100KHz / 1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.

$\Delta 40^\circ\text{C}$ at Irms.



Inductor

► Electrical Characteristics for TCRH8D43 Series Shielded Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)	Irms (A)(max)
TCRH8D43 - 2R0N	2.00	100	0.014	7.00	6.40
TCRH8D43 - 3R9N	3.90	100	0.019	5.90	5.00
TCRH8D43 - 4R7N	4.70	100	0.022	5.60	4.60
TCRH8D43 - 6R8N	6.80	100	0.025	4.40	4.20
TCRH8D43 - 100N	10.00	100	0.036	4.00	3.60
TCRH8D43 - 150N	15.00	100	0.053	2.90	2.65
TCRH8D43 - 220N	22.00	100	0.075	2.60	2.10
TCRH8D43 - 330N	33.00	100	0.125	2.25	1.60
TCRH8D43 - 470N	47.00	100	0.150	1.80	1.45
TCRH8D43 - 680N	68.00	100	0.240	1.50	1.20
TCRH8D43 - 101N	100.00	100	0.360	1.30	0.92

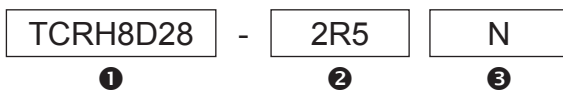
Note: Test Freq.: 100KHz / 1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.

Δ40°C at I_{rms}.

► How to Order



① Shielded Power Inductor : TCRH8D28, TCRH8D43

② Inductance

Code	Inductance
2R0	2.00μH
100	10.00μH
101	100.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





Inductors

SMT Shielded Power Inductors - TCSLF6028 Series

► SMT Shielded Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

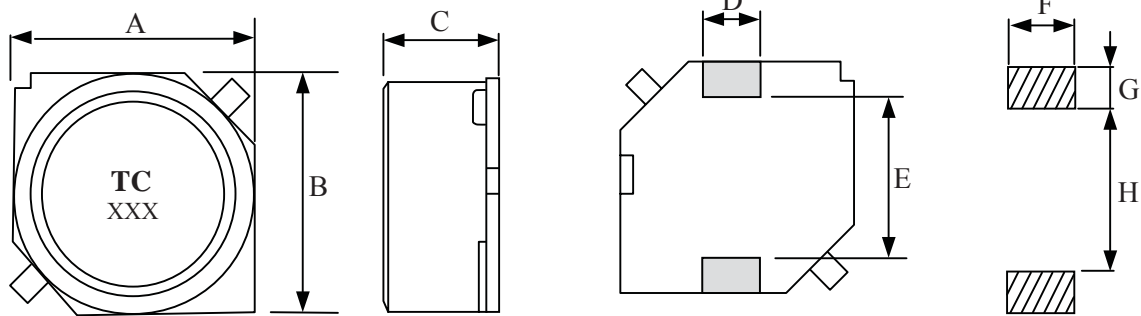
► Applications

- Computers, DC/DC converter, VCR Camera.

► SMT Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D±0.2	E(max)	F	G	H
TCSLF6028	6.2	6.2	3.0	1.8	3.0	2.2	1.8	2.5

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCSLF6028 Series SMT Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TCSLF6028 - 100M	10.00	1	0.150	1.10
TCSLF6028 - 120M	12.00	1	0.200	1.00
TCSLF6028 - 150M	15.00	1	0.230	0.90
TCSLF6028 - 180M	18.00	1	0.270	0.80
TCSLF6028 - 220M	22.00	1	0.340	0.74
TCSLF6028 - 270M	27.00	1	0.380	0.66
TCSLF6028 - 330M	33.00	1	0.450	0.59
TCSLF6028 - 390M	39.00	1	0.490	0.54
TCSLF6028 - 470M	47.00	1	0.690	0.50
TCSLF6028 - 560M	56.00	1	0.780	0.46
TCSLF6028 - 680M	68.00	1	1.070	0.42
TCSLF6028 - 820M	82.00	1	1.210	0.38
TCSLF6028 - 101M	100.00	1	1.390	0.34
TCSLF6028 - 121M	120.00	1	1.900	0.31
TCSLF6028 - 151M	150.00	1	2.180	0.28
TCSLF6028 - 181M	180.00	1	2.770	0.26
TCSLF6028 - 221M	220.00	1	3.120	0.23
TCSLF6028 - 271M	270.00	1	4.380	0.22
TCSLF6028 - 331M	330.00	1	4.940	0.19

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

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



Inductors

► How to Order

-

① ② ③

① SMT Shielded Power Inductors

② Inductance

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Inductors

SMD Shielded Power Inductors - TCSLF Series

► SMD Shielded Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

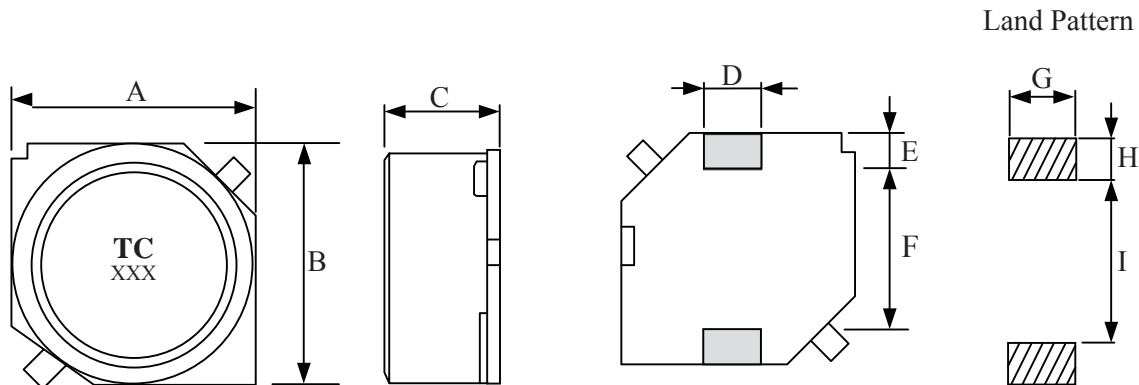
► Applications

- Computers, DC/DC converter, VCR Camera.

► SMD Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A±0.3	B±0.3	C±0.3	D±0.1	E±0.15	F±0.2	G	H	I
TCSLF10145	10.1	10.1	4.5	3.0	2.0	6.0	3.2	2.5	5.6
TCSLF12555	12.5	12.5	5.5	3.0	2.0	8.3	3.2	2.5	8.0
TCSLF12565	12.5	12.5	6.5	3.0	2.0	8.3	3.2	2.5	8.0
TCSLF12575	12.5	12.5	7.5	3.0	2.0	8.3	3.2	2.5	8.0

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCSLF10145 Series SMD Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (±20%)	IDC (A) (max)
TCSLF10145 - 100M	10.00	1	0.0364	3.00
TCSLF10145 - 150M	15.00	1	0.0472	2.40
TCSLF10145 - 220M	22.00	1	0.0591	2.10
TCSLF10145 - 330M	33.00	1	0.0815	1.60
TCSLF10145 - 470M	47.00	1	0.100	1.40
TCSLF10145 - 680M	68.00	1	0.140	1.20
TCSLF10145 - 101M	100.00	1	0.200	1.00
TCSLF10145 - 151M	150.00	1	0.350	0.79
TCSLF10145 - 221M	220.00	1	0.470	0.65
TCSLF10145 - 331M	330.00	1	0.680	0.54
TCSLF10145 - 471M	470.00	1	1.030	0.47
TCSLF10145 - 681M	680.00	1	1.600	0.38
TCSLF10145 - 102M	1000.00	1	2.800	0.32
TCSLF10145 - 152M	1500.00	1	3.400	0.22

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

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Inductors

► Electrical Characteristics for TCSLF12555 Series SMD Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (±20%)	IDC (A)(max)
TCSLF12555 - 6R0N	6.00	1	0.0164	3.60
TCSLF12555 - 100M	10.00	1	0.0215	3.40
TCSLF12555 - 150M	15.00	1	0.0259	2.80
TCSLF12555 - 220M	22.00	1	0.0338	2.30
TCSLF12555 - 330M	33.00	1	0.0415	1.90
TCSLF12555 - 470M	47.00	1	0.0618	1.60
TCSLF12555 - 680M	68.00	1	0.0832	1.30
TCSLF12555 - 101M	100.00	1	0.117	1.10
TCSLF12555 - 151M	150.00	1	0.190	0.88
TCSLF12555 - 221M	220.00	1	0.270	0.72
TCSLF12555 - 331M	330.00	1	0.410	0.59
TCSLF12555 - 471M	470.00	1	0.520	0.49
TCSLF12555 - 681M	680.00	1	0.760	0.43
TCSLF12555 - 102M	1000.00	1	1.120	0.34
TCSLF12555 - 152M	1500.00	1	1.730	0.29

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

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► Electrical Characteristics for TCSLF12565 Series SMD Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω)(±20%)	IDC (A) (max)
TCSLF12565 - 2R0N	2.00	1	0.0117	10.00
TCSLF12565 - 4R2N	4.20	1	0.0150	7.30
TCSLF12565 - 7R0N	7.00	1	0.0177	5.70
TCSLF12565 - 100M	10.00	1	0.0202	5.00
TCSLF12565 - 150M	15.00	1	0.0237	4.20
TCSLF12565 - 220M	22.00	1	0.0316	3.50
TCSLF12565 - 330M	33.00	1	0.0406	2.80
TCSLF12565 - 470M	47.00	1	0.0578	2.40
TCSLF12565 - 680M	68.00	1	0.0787	2.00
TCSLF12565 - 101M	100.00	1	0.123	1.60
TCSLF12565 - 221M	220.00	1	0.273	1.00

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

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Inductors

► Electrical Characteristics for TCSLF12575 Series SMD Shielded Power Inductors

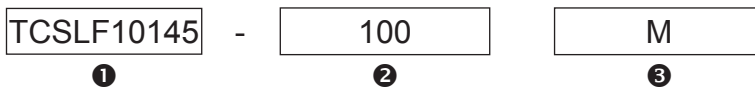
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (±20%)	IDC (A) (max)
TCSLF12575 - 1R2N	1.20	1	0.0050	13.00
TCSLF12575 - 2R7N	2.70	1	0.0094	10.00
TCSLF12575 - 3R9N	3.90	1	0.0104	9.00
TCSLF12575 - 5R6N	5.60	1	0.0116	7.80
TCSLF12575 - 6R8N	6.80	1	0.0131	7.20
TCSLF12575 - 100M	10.00	1	0.0156	5.50
TCSLF12575 - 150M	15.00	1	0.0184	4.70
TCSLF12575 - 220M	22.00	1	0.0263	4.00
TCSLF12575 - 330M	33.00	1	0.0395	3.20
TCSLF12575 - 470M	47.00	1	0.0528	2.70
TCSLF12575 - 680M	68.00	1	0.0778	2.00
TCSLF12575 - 101M	100.00	1	0.125	1.90
TCSLF12575 - 151M	150.00	1	0.175	1.50
TCSLF12575 - 221M	220.00	1	0.258	1.30

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

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order



❶ SMD Shielded Power Inductors: TCSLF10145, TCSLF12555, TCSLF12565, TCSLF12575

❷ Inductance

Code	Inductance
1R2	1.20μH
100	10.00μH
101	100.00μH

❸ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Inductors

Power Inductors SMD Shielded - TCR63B/74B/105B Series

► Power Inductor SMD Shielded Features

Magnetically shielded construction

Compact and thin

Put the electrode with ferrite core directly, a small surface area allow a high mounting density

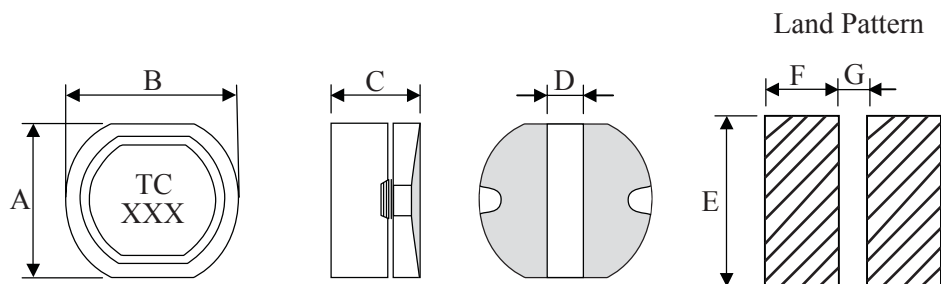
► Applications

VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

► Power Inductor SMD Shielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D(Ref.)	E	F	G
TCR63B	5.90	6.50	3.50	1.45	5.50	2.25	1.70
TCR74B	7.35	8.15	4.90	2.10	7.50	4.00	2.00
TCR105B	9.40	10.40	5.50	2.90	9.50	5.00	2.50

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCR63B Series Power Inductor SMD Shielded

Part Number	Inductance (μH)	Test Freq. (MHz)	DCR (Ω) (max)	IDC (A) (max)
TCR63B - 100M	10.00	2.52	0.140	1.00
TCR63B - 120M	12.00	2.52	0.160	0.94
TCR63B - 150M	15.00	2.52	0.180	0.86
TCR63B - 180M	18.00	2.52	0.250	0.78
TCR63B - 220M	22.00	2.52	0.320	0.76
TCR63B - 270M	27.00	2.52	0.360	0.64
TCR63B - 330M	33.00	2.52	0.410	0.61
TCR63B - 390M	39.00	2.52	0.470	0.53
TCR63B - 470M	47.00	2.52	0.510	0.50
TCR63B - 560M	56.00	2.52	0.720	0.46
TCR63B - 680M	68.00	2.52	0.820	0.42



SMD Inductors

► Electrical Characteristics for TCR74B Series Power Inductor SMD Shielded

Part Number	Inductance (μH)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A)(max)
TCR74B - 100M	10.00	2.52 M	0.070	1.65
TCR74B - 120M	12.00	2.52 M	0.070	1.57
TCR74B - 150M	15.00	2.52 M	0.080	1.39
TCR74B - 180M	18.00	2.52 M	0.100	1.29
TCR74B - 220M	22.00	2.52 M	0.130	1.12
TCR74B - 270M	27.00	2.52 M	0.160	1.06
TCR74B - 330M	33.00	2.52 M	0.180	0.97
TCR74B - 390M	39.00	2.52 M	0.180	0.91
TCR74B - 470M	47.00	2.52 M	0.270	0.80
TCR74B - 560M	56.00	2.52 M	0.290	0.76
TCR74B - 680M	68.00	2.52 M	0.330	0.68
TCR74B - 820M	82.00	2.52 M	0.430	0.62
TCR74B - 101M	100.00	1 K	0.490	0.55
TCR74B - 121M	120.00	1 K	0.680	0.49
TCR74B - 151M	150.00	1 K	0.940	0.44
TCR74B - 181M	180.00	1 K	1.000	0.40
TCR74B - 221M	220.00	1 K	1.180	0.36
TCR74B - 271M	270.00	1 K	1.300	0.33

► Electrical Characteristics for TCR105B Series Power Inductor SMD Shielded

Part Number	Inductance (μH)	Test Freq. (Hz)	DCR (Ω) (max)	IDC (A)(max)
TCR105B - 100M	10.00	2.52 M	0.060	2.06
TCR105B - 120M	12.00	2.52 M	0.070	1.94
TCR105B - 150M	15.00	2.52 M	0.070	1.72
TCR105B - 180M	18.00	2.52 M	0.080	1.58
TCR105B - 220M	22.00	2.52 M	0.080	1.42
TCR105B - 270M	27.00	2.52 M	0.100	1.32
TCR105B - 330M	33.00	2.52 M	0.110	1.16
TCR105B - 390M	39.00	2.52 M	0.120	1.10
TCR105B - 470M	47.00	2.52 M	0.140	1.00
TCR105B - 560M	56.00	2.52 M	0.190	0.93
TCR105B - 680M	68.00	2.52 M	0.210	0.85
TCR105B - 820M	82.00	2.52 M	0.280	0.79
TCR105B - 101M	100.00	1 K	0.340	0.72
TCR105B - 121M	120.00	1 K	0.370	0.63
TCR105B - 151M	150.00	1 K	0.510	0.55
TCR105B - 181M	180.00	1 K	0.570	0.50
TCR105B - 221M	220.00	1 K	0.780	0.47
TCR105B - 271M	270.00	1 K	0.870	0.41
TCR105B - 331M	330.00	1 K	1.200	0.37

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SMD Inductors

Continued from the preceding page.

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCR105B - 391M	390.00	1 K	1.340	0.35
TCR105B - 471M	470.00	1 K	1.500	0.33

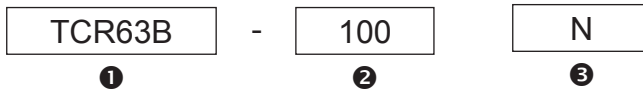
Note: TCR74B-101 ~ 271 Test Freq.: 1KHz / 0.25V.

TCR105B-101 ~ 471 Test Freq.: 1KHz / 0.25V.

Operating Temp. : -40°C ~ +85°C.

Inductance drop = 10% typ. at IDC.

How to Order



① SMD Shielded Power Inductors : TCR63B, TCR74B, TCR105B

② Inductance

Code	Inductance
100	10.00 μH
101	100.00 μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



Power Inductor

SMT Shielded Power Inductors - TCD4009C/4011C/4014C Series

► SMT Shielded Power Inductor Features

- Magnetically shielded construction
- Low Profile
- Large Current and Low DCR

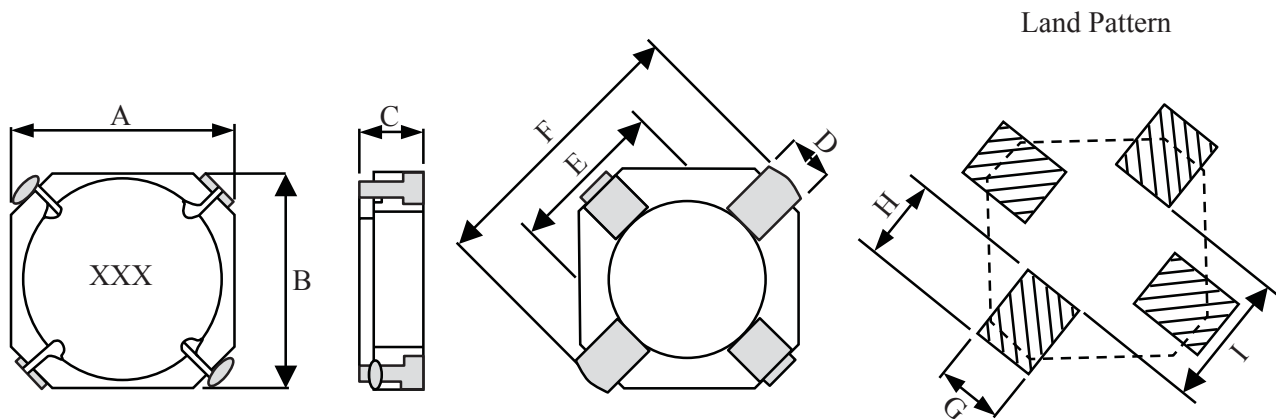
► Applications

- LCD Driver
- Cellular Phone
- Small DC/DC converter
- Transformers

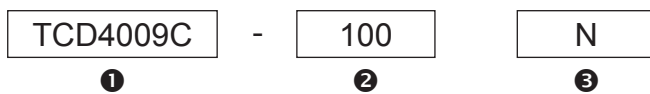
► SMT Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D	E	F	G	H	I
TCD4009C	4.9	4.9	1.0	1.0	3.3	5.4	1.4	1.65	2.9
TCD4011C	4.9	4.9	1.2	1.0	3.3	5.4	1.4	1.65	2.9
TCD4014C	4.9	4.9	1.5	1.0	3.3	5.4	1.4	1.65	2.9

Note: Design as Customer's Requested Specifications.



► How to Order



❶ SMT Shielded Power Inductors:TCD4009C, TCD4011C, TCD4014C

❷ Inductance

❸ Tolerance

Code	Tolerance
M	20%
N	30%



SMD Power Inductors

Power Inductors SMD Shielded - TCD7014C/7026C/1014C Series

► Power Inductor SMD Shielded Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

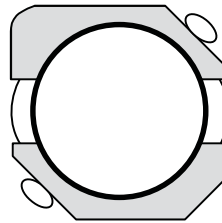
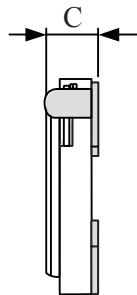
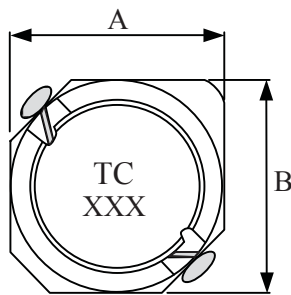
► Applications

- LCD Driver
- Small DC/DC converter

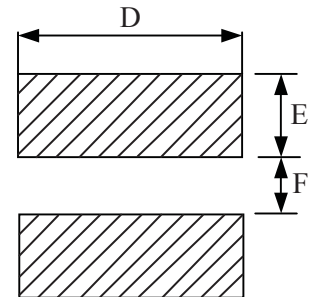
► Power Inductor SMD Shielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D	E	F
TCD7014C	7.3	7.3	1.5	7.30	2.65	2.00
TCD7026C	7.3	7.3	2.8	7.30	2.65	2.00
TCD1014C	10.3	10.3	1.5	10.40	3.70	3.00

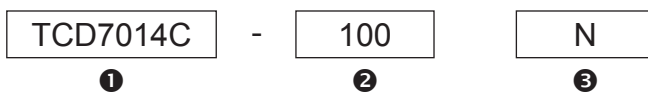
Note: Design as Customer's Requested Specifications.



Land Pattern



► How to Order



① Power Inductors SMD Shielded : TCD7014C, TCD7026C, TCD1014C

② Inductance

③ Tolerance

Code	Tolerance
M	20%
N	30%





SMD Power Inductors

SMT Shielded Power Inductors - TCD73C/75C Series

► SMT Shielded Power Inductor Features

Magnetically shielded construction
 Compact and thin
 For large currents

► Applications

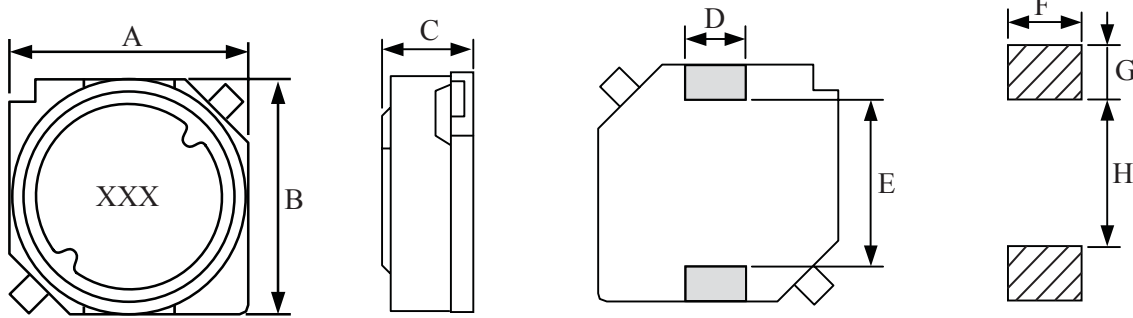
Notebook, Portable communication equipments, DC/DC converters.

► SMT Shielded Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D ± 0.2	E(max)	F	G	H
TCD73C	7.4	7.4	3.5	2.0	5.4	3.0	2.0	4.4
TCD75C	7.4	7.4	5.1	2.0	5.4	3.0	2.0	4.4

Note: Design as Customer's Requested Specifications.

Land Pattern



► Electrical Characteristics for TCD73C Series SMT Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD73C - 1R0M	1.00	1	0.019	3.12
TCD73C - 1R5M	1.50	1	0.023	2.85
TCD73C - 1R8M	1.80	1	0.028	2.66
TCD73C - 2R2M	2.20	1	0.028	2.66
TCD73C - 2R7M	2.70	1	0.030	2.40
TCD73C - 3R3M	3.30	1	0.035	2.26
TCD73C - 4R7M	4.70	1	0.043	1.96
TCD73C - 5R6M	5.60	1	0.050	1.80
TCD73C - 6R8M	6.80	1	0.055	1.76
TCD73C - 8R2M	8.20	1	0.065	1.50
TCD73C - 100M	10.00	1	0.080	1.34
TCD73C - 120M	12.00	1	0.090	1.23
TCD73C - 150M	15.00	1	0.120	1.09
TCD73C - 180M	18.00	1	0.130	0.99
TCD73C - 220M	22.00	1	0.150	0.90
TCD73C - 270M	27.00	1	0.210	0.81
TCD73C - 330M	33.00	1	0.250	0.72

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SMD Power Inductors

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Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD73C - 390M	39.00	1	0.310	0.67
TCD73C - 470M	47.00	1	0.350	0.60
TCD73C - 560M	56.00	1	0.430	0.55
TCD73C - 680M	68.00	1	0.520	0.50
TCD73C - 820M	82.00	1	0.600	0.46
TCD73C - 101M	100.00	1	0.790	0.41
TCD73C - 121M	120.00	1	0.804	0.35
TCD73C - 151M	150.00	1	1.100	0.30
TCD73C - 181M	180.00	1	1.250	0.28
TCD73C - 221M	220.00	1	1.560	0.25
TCD73C - 271M	270.00	1	1.830	0.24
TCD73C - 331M	330.00	1	2.900	0.23
TCD73C - 391M	390.00	1	3.300	0.22
TCD73C - 471M	470.00	1	3.600	0.21
TCD73C - 561M	560.00	1	4.100	0.19
TCD73C - 681M	680.00	1	4.600	0.18
TCD73C - 821M	820.00	1	5.900	0.12
TCD73C - 102M	1000.00	1	7.020	0.10

Note: Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.

► Electrical Characteristics for TCD75C Series SMT Shielded Power Inductors

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD75C - 1R0M	1.00	1	0.023	2.88
TCD75C - 1R2M	1.20	1	0.025	2.85
TCD75C - 1R5M	1.50	1	0.027	2.61
TCD75C - 2R2M	2.20	1	0.030	2.46
TCD75C - 3R3M	3.30	1	0.035	2.28
TCD75C - 4R7M	4.70	1	0.041	2.08
TCD75C - 5R6M	5.60	1	0.044	2.00
TCD75C - 6R8M	6.80	1	0.047	1.94
TCD75C - 8R2M	8.20	1	0.048	1.80
TCD75C - 100M	10.00	1	0.050	1.68
TCD75C - 120M	12.00	1	0.070	1.54
TCD75C - 150M	15.00	1	0.080	1.39
TCD75C - 180M	18.00	1	0.090	1.26
TCD75C - 220M	22.00	1	0.110	1.13
TCD75C - 270M	27.00	1	0.150	1.02
TCD75C - 330M	33.00	1	0.170	0.84
TCD75C - 390M	39.00	1	0.180	0.80
TCD75C - 470M	47.00	1	0.200	0.76

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SMD Power Inductors

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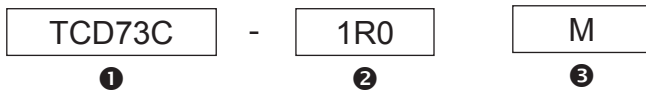
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD75C - 560M	56.00	1	0.280	0.64
TCD75C - 680M	68.00	1	0.320	0.60
TCD75C - 820M	82.00	1	0.350	0.57
TCD75C - 101M	100.00	1	0.400	0.50
TCD75C - 121M	120.00	1	0.440	0.47
TCD75C - 151M	150.00	1	0.730	0.40
TCD75C - 181M	180.00	1	0.780	0.39
TCD75C - 221M	220.00	1	0.940	0.33
TCD75C - 271M	270.00	1	1.250	0.31
TCD75C - 331M	330.00	1	1.400	0.27
TCD75C - 391M	390.00	1	1.520	0.27
TCD75C - 471M	470.00	1	1.700	0.25
TCD75C - 561M	560.00	1	2.390	0.22
TCD75C - 681M	680.00	1	2.500	0.20
TCD75C - 821M	820.00	1	3.000	0.18
TCD75C - 102M	1000.00	1	4.100	0.17

Note: Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.

► How to Order



① SMT Shielded Power Inductors: TCD73C, TCD75C

② Inductance

Code	Inductance
1R0	1.00μH
100	10.00μH
101	100.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Shielded SMD Power Inductor - TCD62LCB/62CB/63LCB/63CB Series

Shielded SMD Power Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

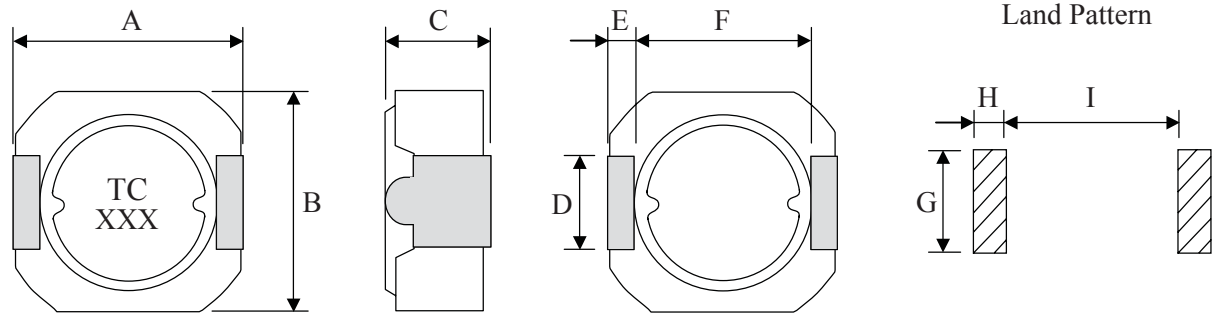
Applications

- Ideal for a variety of DC/DC converter inductor applications.
- Scanner

Shielded SMD Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D ± 0.2	E ± 0.2	F ± 0.2	G	H	I
TCD62LCB	6.3	6.2	2.0	2.0	0.6	4.6	2.6	1.0	4.6
TCD62CB	6.3	6.2	2.5	2.0	0.6	4.6	2.6	1.0	4.6
TCD63LCB	6.3	6.2	3.0	2.0	0.6	4.6	2.6	1.0	4.6
TCD63CB	6.3	6.2	3.5	2.0	0.6	4.6	2.6	1.0	4.6

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TCD62LCB Series Shielded SMD Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD62LCB - 1R0N	1.00	100	0.022	3.50
TCD62LCB - 1R5N	1.50	100	0.030	2.94
TCD62LCB - 2R0N	2.00	100	0.040	2.47
TCD62LCB - 3R3N	3.30	100	0.055	1.99
TCD62LCB - 4R7N	4.70	100	0.070	1.59
TCD62LCB - 6R2N	6.20	100	0.110	1.49
TCD62LCB - 8R2N	8.20	100	0.140	1.25
TCD62LCB - 100M	10.00	100	0.160	1.22
TCD62LCB - 120M	12.00	100	0.200	0.99
TCD62LCB - 150M	15.00	100	0.230	0.94
TCD62LCB - 180M	18.00	100	0.260	0.83
TCD62LCB - 220M	22.00	100	0.310	0.80
TCD62LCB - 270M	27.00	100	0.390	0.65
TCD62LCB - 330M	33.00	100	0.510	0.63
TCD62LCB - 390M	39.00	100	0.570	0.55
TCD62LCB - 470M	47.00	100	0.730	0.50

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.





SMD Power Inductors

► Electrical Characteristics for TCD62CB Series Shielded SMD Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD62CB - 1R0N	1.00	100	0.018	3.48
TCD62CB - 1R5N	1.50	100	0.024	2.83
TCD62CB - 2R0N	2.00	100	0.032	2.44
TCD62CB - 3R3N	3.30	100	0.045	1.89
TCD62CB - 4R3N	4.30	100	0.055	1.65
TCD62CB - 6R2N	6.20	100	0.065	1.37
TCD62CB - 100M	10.00	100	0.095	1.07
TCD62CB - 120M	12.00	100	0.120	0.97
TCD62CB - 150M	15.00	100	0.150	0.87
TCD62CB - 180M	18.00	100	0.180	0.79
TCD62CB - 220M	22.00	100	0.210	0.71
TCD62CB - 270M	27.00	100	0.240	0.64
TCD62CB - 330M	33.00	100	0.280	0.58
TCD62CB - 390M	39.00	100	0.330	0.53
TCD62CB - 470M	47.00	100	0.390	0.48
TCD62CB - 560M	56.00	100	0.450	0.44
TCD62CB - 680M	68.00	100	0.560	0.40
TCD62CB - 820M	82.00	100	0.620	0.36
TCD62CB - 101M	100.00	100	0.800	0.33

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.

► Electrical Characteristics for TCD63LCB Series Shielded SMD Power Inductor

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD63LCB - 1R0N	1.00	100	0.017	3.59
TCD63LCB - 1R5N	1.50	100	0.021	2.93
TCD63LCB - 2R2N	2.20	100	0.024	2.42
TCD63LCB - 3R6N	3.60	100	0.033	1.89
TCD63LCB - 4R7N	4.70	100	0.042	1.66
TCD63LCB - 6R2N	6.20	100	0.050	1.45
TCD63LCB - 100M	10.00	100	0.065	1.14
TCD63LCB - 120M	12.00	100	0.072	1.04
TCD63LCB - 150M	15.00	100	0.096	0.93
TCD63LCB - 180M	18.00	100	0.103	0.85
TCD63LCB - 220M	22.00	100	0.132	0.77
TCD63LCB - 270M	27.00	100	0.160	0.70
TCD63LCB - 330M	33.00	100	0.180	0.63
TCD63LCB - 390M	39.00	100	0.200	0.58
TCD63LCB - 470M	47.00	100	0.250	0.53
TCD63LCB - 560M	56.00	100	0.300	0.48
TCD63LCB - 680M	68.00	100	0.360	0.44
TCD63LCB - 820M	82.00	100	0.450	0.40

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SMD Power Inductors

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Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD63LCB - 101M	100.00	100	0.560	0.36
TCD63LCB - 151M	150.00	100	0.750	0.31

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.

Electrical Characteristics for TCD63CB Series Shielded SMD Power Inductor

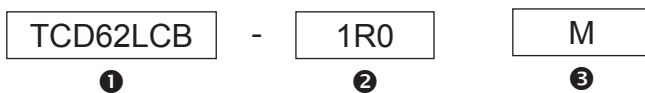
Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A)(max)
TCD63CB - 2R0N	2.00	100	0.020	3.00
TCD63CB - 2R7N	2.70	100	0.025	2.69
TCD63CB - 3R3N	3.30	100	0.030	2.57
TCD63CB - 4R7N	4.70	100	0.035	2.08
TCD63CB - 6R2N	6.20	100	0.040	1.84
TCD63CB - 8R2N	8.20	100	0.055	1.54
TCD63CB - 100M	10.00	100	0.065	1.49
TCD63CB - 120M	12.00	100	0.072	1.28
TCD63CB - 150M	15.00	100	0.078	1.10
TCD63CB - 180M	18.00	100	0.098	1.05
TCD63CB - 220M	22.00	100	0.115	0.97
TCD63CB - 270M	27.00	100	0.150	0.82
TCD63CB - 330M	33.00	100	0.175	0.76
TCD63CB - 390M	39.00	100	0.200	0.70
TCD63CB - 470M	47.00	100	0.240	0.68
TCD63CB - 560M	56.00	100	0.300	0.60
TCD63CB - 680M	68.00	100	0.330	0.56
TCD63CB - 820M	82.00	100	0.420	0.47
TCD63CB - 101M	100.00	100	0.470	0.45
TCD63CB - 151M	150.00	100	0.650	0.37

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=30% typ. at IDC.

How to Order



1 Shielded SMD Power Inductor : TCD62LCB, TCD62CB, TCD63LCB, TCD63CB.

2 Inductance

Code	Inductance
1R0	1.00μH
100	10.00μH
101	100.00μH

3 Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



Power Inductors

Toroidal SMD Power Inductors - TCTX-2P/4P Series

Toroidal SMD Power Inductor Features

- Closed magnetic circuit for lowest EMI
- Maximum Power density
- With Powdered Iron cores & Low cost

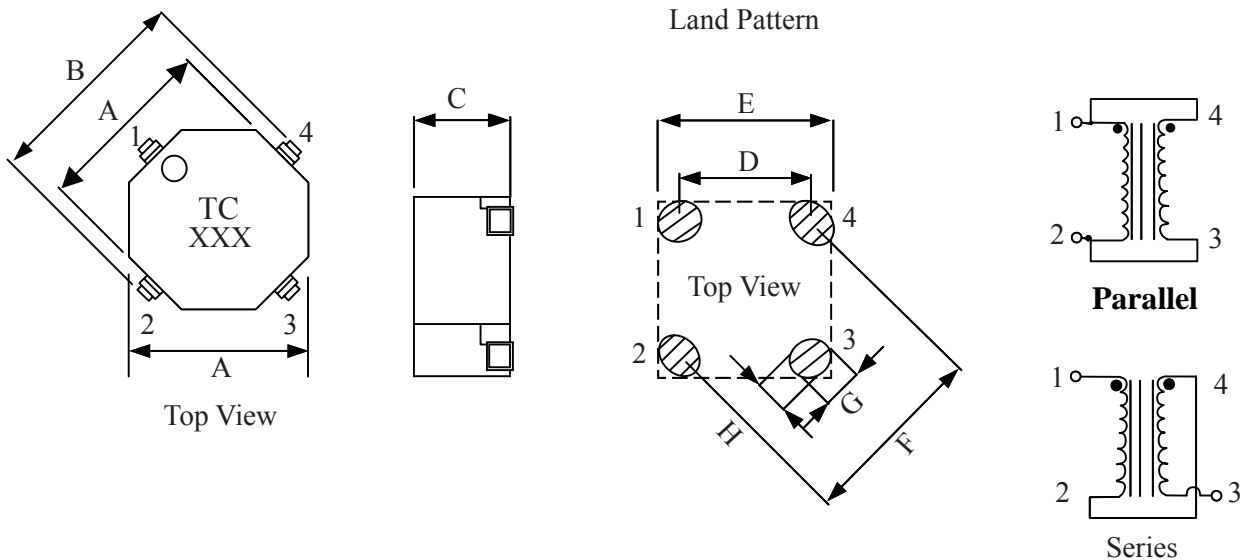
Applications

- Power Supply applications
- Output Ripple Current Filter
- VGA Card

Toroidal SMD Power Inductor Dimensions & Configurations (Unit In mm)

Type	A ± 0.5	B ± 0.5	C(max)	D	E	F	G	H
TCTX-2P	9.00	11.60	5.96	7.04	10.72	9.96	3.68	3.05
TCTX-4P	11.40	14.40	7.00	8.84	12.50	12.50	4.06	3.05

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TCTX-2P Series Toroidal SMD Power Inductors

Part Number	Parallel				Series			
	L (μH) ±20%	L @ IDC (μH) (min)	DCR (Ω) (max)	IDC (A) (max)	L (μH) ±20%	L @ IDC (μH) (min)	DCR (Ω) (max)	IDC (A) (max)
TCTX0.47-2P	0.54	0.42	0.006	5.90	2.18	1.69	0.024	2.95
TCTX0.68-2P	0.85	0.64	0.008	5.40	3.40	2.55	0.029	2.70
TCTX1-2P	1.22	0.89	0.009	5.00	4.90	3.57	0.034	2.50
TCTX2-2P	2.18	1.56	0.014	3.90	8.70	6.26	0.056	1.95
TCTX5-2P	4.90	3.57	0.032	2.50	19.58	14.26	0.128	1.25
TCTX8-2P	7.65	5.31	0.040	2.30	30.60	21.23	0.159	1.15
TCTX10-2P	9.83	6.73	0.045	2.10	39.30	26.92	0.179	1.05
TCTX15-2P	14.99	10.51	0.085	1.60	59.98	42.02	0.339	0.80
TCTX20-2P	19.58	13.37	0.097	1.50	78.34	53.48	0.387	0.75
TCTX25-2P	24.79	16.60	0.109	1.40	99.14	66.38	0.436	0.70
TCTX33-2P	32.67	21.29	0.126	1.30	130.70	85.17	0.503	0.65

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Power Inductors

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Part Number	Parallel				Series			
	L (μH) ±20%	L @ IDC (μH) (min)	DCR (Ω) (max)	IDC (A) (max)	L (μH) ±20%	L @ IDC (μH) (min)	DCR (Ω) (max)	IDC (A) (max)
TCTX50-2P	49.10	35.31	0.306	0.82	196.38	141.24	1.221	0.41
TCTX68-2P	68.85	47.93	0.362	0.76	275.40	191.71	1.447	0.38
TCTX100-2P	99.14	69.56	0.541	0.62	396.58	278.22	2.162	0.31
TCTX150-2P	148.10	100.07	0.666	0.56	592.42	400.27	2.661	0.28
TCTX200-2P	201.59	138.49	0.951	0.46	806.34	553.97	3.804	0.23
TCTX300-2P	300.42	197.52	1.176	0.42	1201.70	790.08	4.703	0.21

Note: Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C

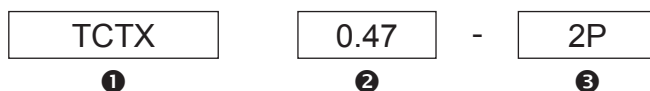
► Electrical Characteristics for TCTX-4P Series Toroidal SMD Power Inductors

Part Number	Parallel				Series			
	L (μH) ±20%	L @ IDC (μH) (min)	DCR (Ω) (max)	IDC (A) (max)	L (μH) ±20%	L @ IDC (μH) (min)	DCR (Ω) (max)	IDC (A) (max)
TCTX0.47-4P	0.49	0.37	0.005	7.90	1.95	1.49	0.019	3.95
TCTX0.68-4P	0.76	0.56	0.006	7.20	3.05	2.24	0.023	3.60
TCTX1-4P	1.10	0.81	0.009	5.90	4.39	3.24	0.034	2.95
TCTX2-4P	1.95	1.42	0.014	4.60	7.81	5.69	0.055	2.30
TCTX5-4P	5.15	3.56	0.027	3.30	20.62	14.23	0.107	1.65
TCTX8-4P	7.81	5.15	0.033	3.00	31.23	20.61	0.131	1.50
TCTX10-4P	9.88	6.70	0.047	2.50	39.53	26.79	0.187	1.25
TCTX15-4P	14.76	9.52	0.057	2.30	59.05	38.09	0.228	1.15
TCTX20-4P	20.62	13.44	0.085	1.90	82.47	53.76	0.337	0.95
TCTX25-4P	25.65	17.17	0.116	1.60	102.60	68.68	0.462	0.80
TCTX33-4P	33.21	22.93	0.166	1.30	132.86	91.72	0.663	0.65
TCTX50-4P	48.80	32.21	0.202	1.20	195.20	128.83	0.805	0.60
TCTX68-4P	67.37	43.04	0.238	1.10	269.50	172.16	0.952	0.55
TCTX100-4P	99.09	69.54	0.565	0.72	396.38	278.15	2.259	0.36
TCTX150-4P	149.45	101.46	0.696	0.64	597.80	405.83	2.784	0.32
TCTX200-4P	200.11	131.37	0.810	0.60	800.44	525.47	3.240	0.30
TCTX300-4P	298.93	188.03	1.003	0.54	1195.72	752.13	4.011	0.27

Note: Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C

► How to Order



❶ Toroidal SMD Power Inductors

❷ Inductance

❸ Case Type



Power Inductors

SMD Toroidal Power Inductor - TC0718 Series

SMD Toroidal Power Inductor Features

- Closed magnetic circuit for lowest EMI
- Compact and thin
- Large Current and Low DCR

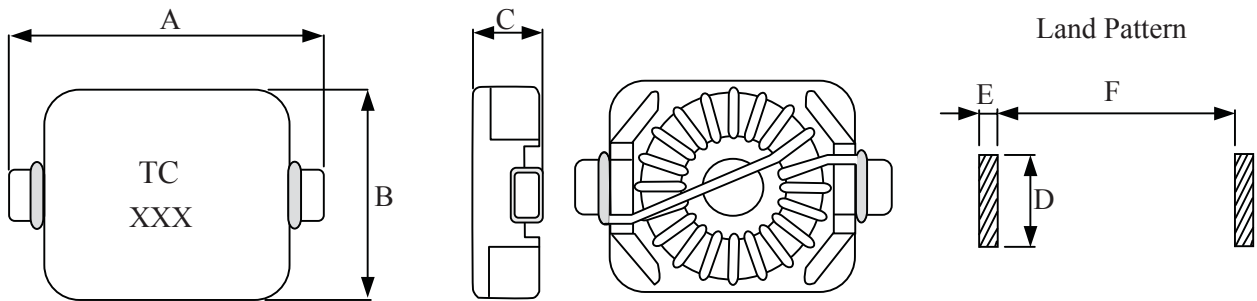
Applications

- Wireless and handheld devices.
- PCMCIA cards and disk drives
- GPS

SMD Toroidal Power Inductor Dimensions & Configurations (Unit In mm)

Type	A ± 0.3	B ± 0.3	C(max)	D	E	F
TC0718	7.6	5.0	1.85	2.5	1.2	5.0

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TC0718 Series SMD Toroidal Power Inductor

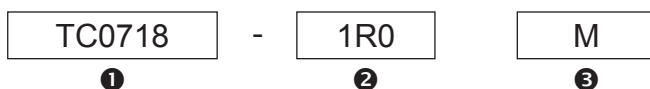
Part Number	Inductance (μH)	Inductance(μH) @ IDC (min)	Test Freq. (KHz)	DCR (Ω) (max)	Current (A)(max)	IDC(A) (max)
TC0718 - 1R0M	1.00	0.80	100	0.103	1.67	2.10
TC0718 - 2R2M	2.20	1.60	100	0.130	1.40	1.40
TC0718 - 4R7M	4.70	3.22	100	0.180	0.98	1.00
TC0718 - 100M	10.00	6.96	100	0.240	0.67	0.68
TC0718 - 150M	15.00	10.71	100	0.330	0.54	0.54
TC0718 - 220M	22.00	15.26	100	0.360	0.45	0.45
TC0718 - 330M	33.00	23.59	100	0.550	0.36	0.37
TC0718 - 470M	47.00	32.48	100	0.850	0.31	0.31

Note: Test Freq.: 100KHz / 0.25V

Operating Temp.: -40°C ~ +85°C

Current (max)...40°C temperature rise

How to Order



① SMD Toroidal Power Inductors

② Inductance

③ Tolerance

Code	Tolerance
K	10%
M	20%
L	15%
Y	min



Power Inductors

Toroidal SMT Power Inductors - TC68HC Series

▶ Toroidal SMT Power Inductor Features

Closed magnetic circuit for lowest EMI
High Current.

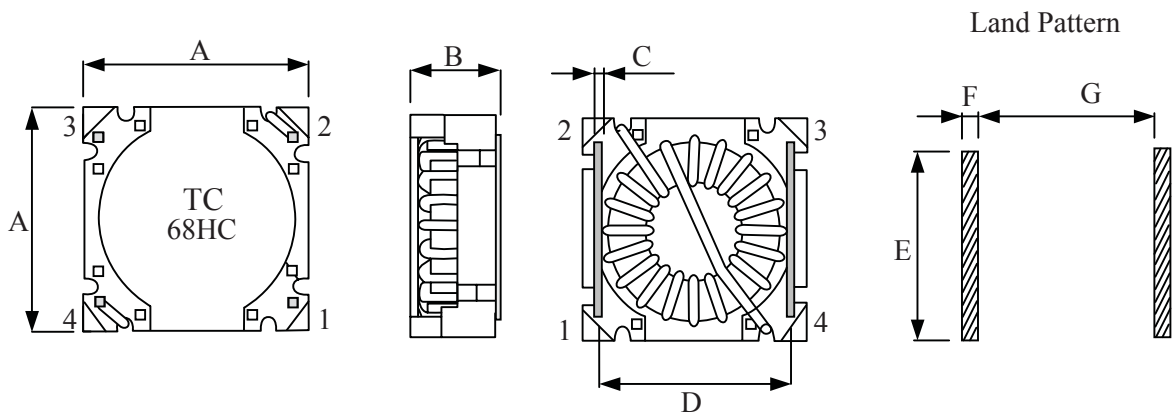
▶ Applications

Power switching, TV game, Monitor, Car recharger, etc..

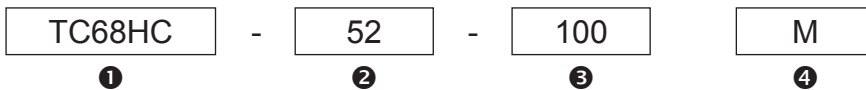
▶ Toroidal SMT Power Inductor Dimensions & Configurations (Unit In mm)

Type	MARK	A ± 0.5	B ± 0.5	C ± 0.2	D ± 0.5	E	F	G
TC68HC	TC68HC	24.0	9.6	1.0	20.8	18.0	2.5	18.0

Note: Design as Customer's Requested Specifications.



▶ How to Order



① Toroidal SMT Power Inductors

② Core Material

③ Inductance

④ Tolerance

Code	Tolerance
K	10%
M	20%
L	15%
Y	min





SMD Inductors

Toroidal Power Inductors - TC302/502/1051 Series

Toroidal Power Inductor Features

Closed magnetic circuit for lowest EMI
High Current.

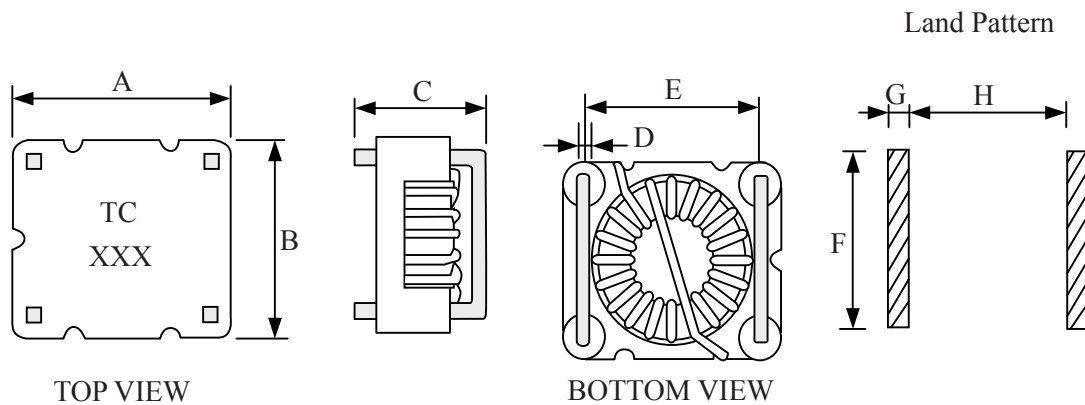
Applications

Power switching, TV game, Monitor, Car recharger, Output Ripple Current Filter.

Toroidal Power Inductor Dimensions & Configurations (Unit In mm)

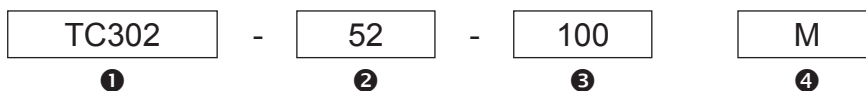
Type	MARK	A ± 0.5	B ± 0.5	C ± 0.5	D ± 0.2	E ± 0.5	F	G	H
TC302	TC302	10.0	8.6	6.2	0.64	7.6	8.0	2.0	6.4
TC502	TC502	15.7	13.2	9.7	1.0	12.7	12.0	2.5	10.7
TC1051	TC1051	31.0	22.6	12.2	1.0	26.7	20.0	2.5	24.7

Note: Design as Customer's Requested Specifications.



Unit In m m

How to Order



① SMD Toroidal Coil Inductors: TC302 , TC502 , TC1051

② Core Material

③ Inductance

④ Tolerance

Code	Tolerance
K	10%
M	20%
L	15%
Y	min



SMD Inductors

Toroidal Power Inductor - TC302A/502A Series

▶ Toroidal Power Inductor Features

- Closed magnetic circuit for lowest EMI
- High Current.
- Compatible with vapor phase and infrared reflow soldering

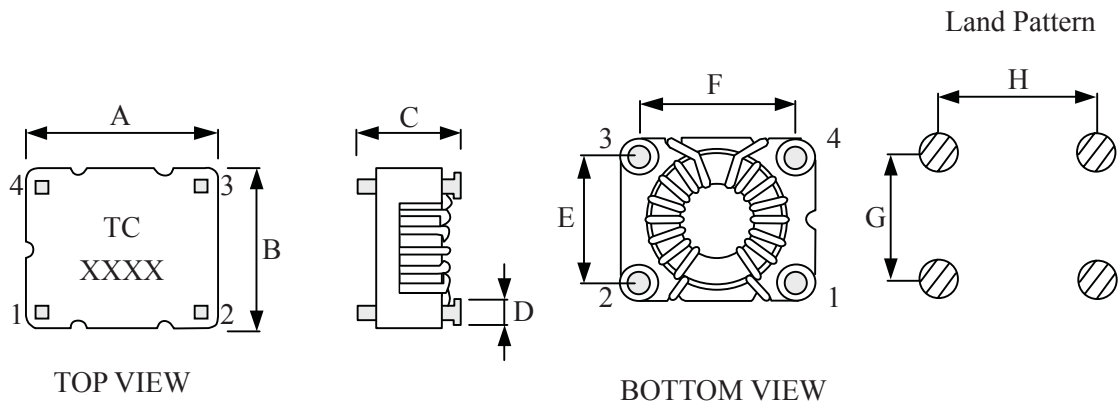
▶ Applications

- Power switching, TV game, Monitor, Car recharger.
- Output Ripple Current Filter

▶ Toroidal Power Inductor Dimensions & Configurations (Unit In mm)

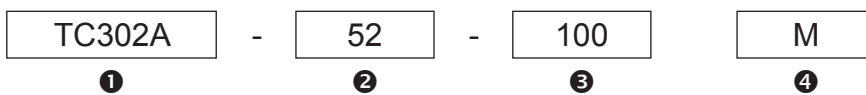
Type	MARK	A ± 0.5	B ± 0.5	C ± 0.5	D ± 0.2	E ± 0.5	F ± 0.5	G	H
TC302A	TC302A	10.0	8.6	6.2	1.0	6.1	7.7	6.1	7.7
TC502A	TC502A	15.8	13.2	7.7	1.4	10.3	12.7	10.3	12.7

Note: Design as Customer's Requested Specifications.



Unit In m m

▶ How to Order



① SMD Toroidal Power Inductor : TC302A , TC502A

② Core Material

③ Inductance

④ Tolerance

Code	Tolerance
K	10%
M	20%
L	15%
Y	min



Power Inductor

Toroidal Power Inductors - TCSHD01/02/03 Series

Toroidal Power Inductors Features

- Closed magnetic circuit for lowest EMI
- High performance low loss powder iron core is excellent for high frequency applications
- Compatible with vapor phase and infrared reflow soldering

Applications

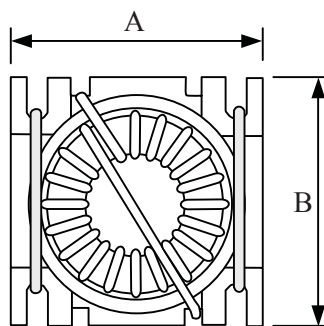
- Notebook
- DC/DC Converter
- Output Ripple Current Filter

Toroidal Power Inductor Dimensions & Configurations (Unit In mm)

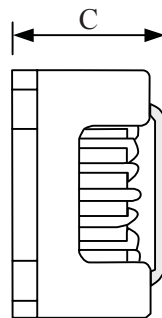
Type	A ± 0.5	B ± 0.5	C (max)	D	E	F
TCSHD01	15.4	14.5	8.80	13.0	12.5	2.5
TCSHD02	15.7	15.3	9.40	12.8	13.0	2.5
TCSHD03	14.2	14.1	8.80	12.5	11.3	2.5

Note: Design as Customer's Requested Specifications.

TCSHD01

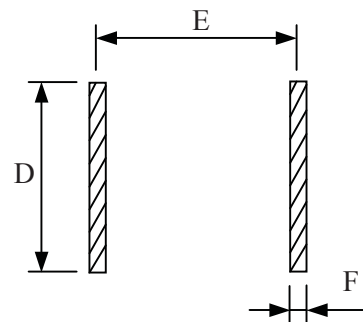


Bottom View

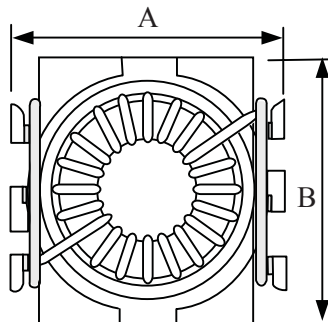


Side View

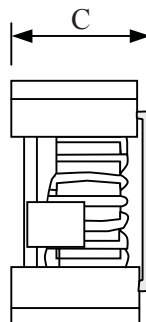
Land Pattern



TCSHD02

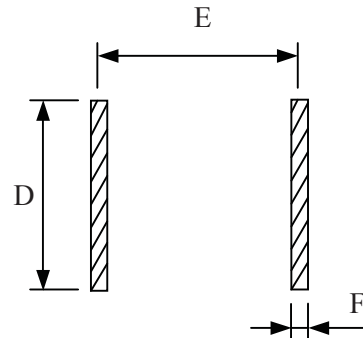


Bottom View



Side View

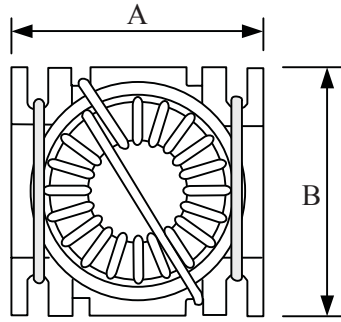
Land Pattern



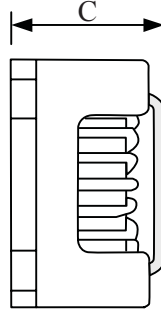


Power Inductor

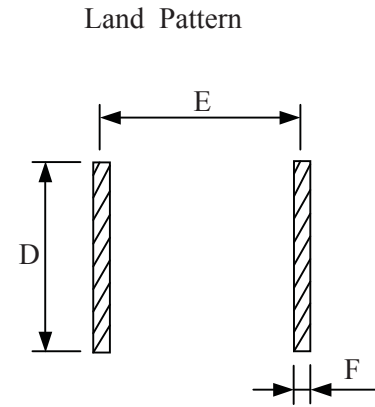
TCSHD03



Bottom View



Side View



Land Pattern

► How to Order

TCSHD01 -
 60E -
 151
M

①
②
③
④

① Toroidal Power Inductors: TCSHD01, TCSHD02, TCSHD03

② Core Material

③ Inductance

④ Tolerance

Code	Tolerance
M	20%
N	30%



Power Inductor

Toroidal Power Inductor - TC0950 Series

Toroidal Power Inductor Features

Magnetically shielded construction
Compact and thin

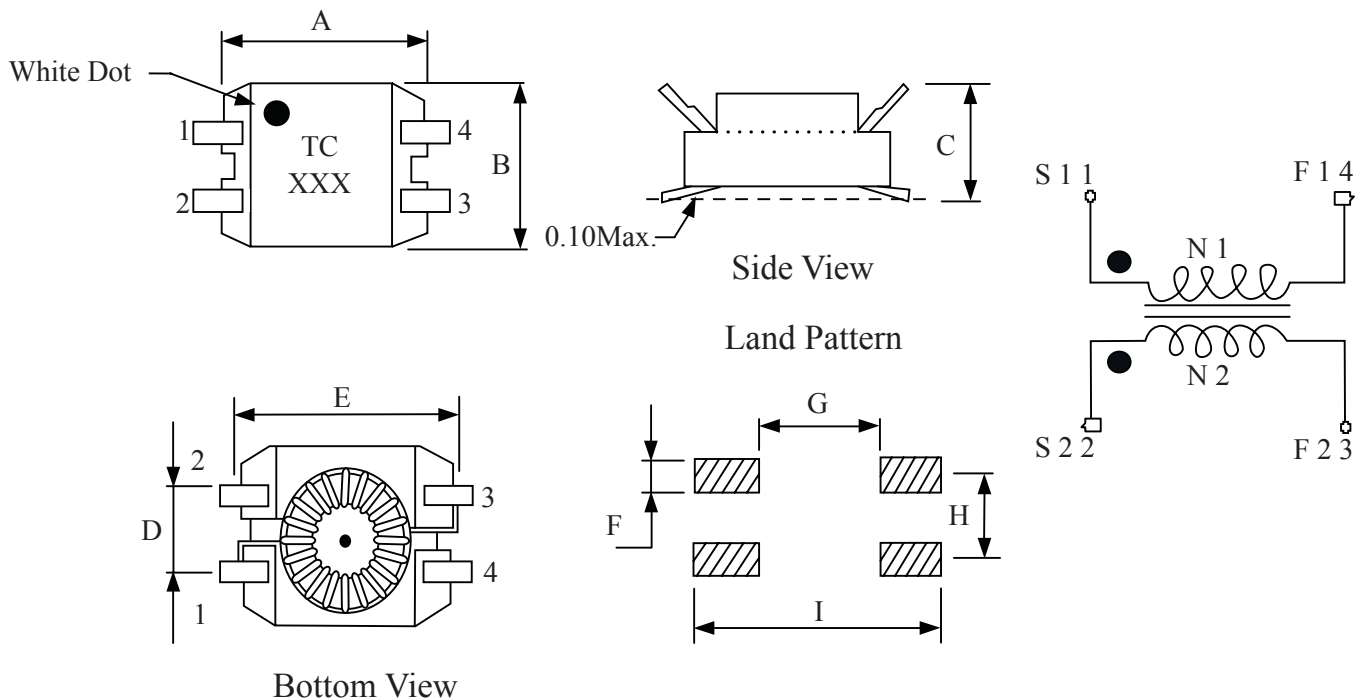
Applications

Range suited for many DSL and Telecom applications

Toroidal Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D± 0.5	E± 0.2	Fnom	Gnom	Hnom	Inom
TC0950	9.5	6.0	5.2	2.5	7.5	1.2	4.5	2.5	10.5

Note: Design as Customer's Requested Specifications.



Electrical Characteristics for TC0950 Series Toroidal Power Inductor

Part Number	Inductance(μ H)	Withstanding Voltage (Vrms)	Test Freq.(KHz)	DCR (Ω)(max)	Rated Current (max)(mA)
TC0950 - 471N	470	250	100	0.3	220
TC0950 - 102N	1000	250	100	0.3	220
TC0950 - 222N	2200	250	100	0.4	200
TC0950 - 472N	4700	250	100	0.7	180

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

How to Order



① SMT Toroidal Power Inductor

② Inductance

Code	Inductance
471	470 μ H
472	4700 μ H

③ Tolerance

Code	Tolerance
L	15%
N	30%



Power Inductor

Power Toroidal Inductors - TC0950A Series

► Power Toroidal Inductor Features

- Magnetically shielded construction
- Compact and thin
- Large Current and Low DCR

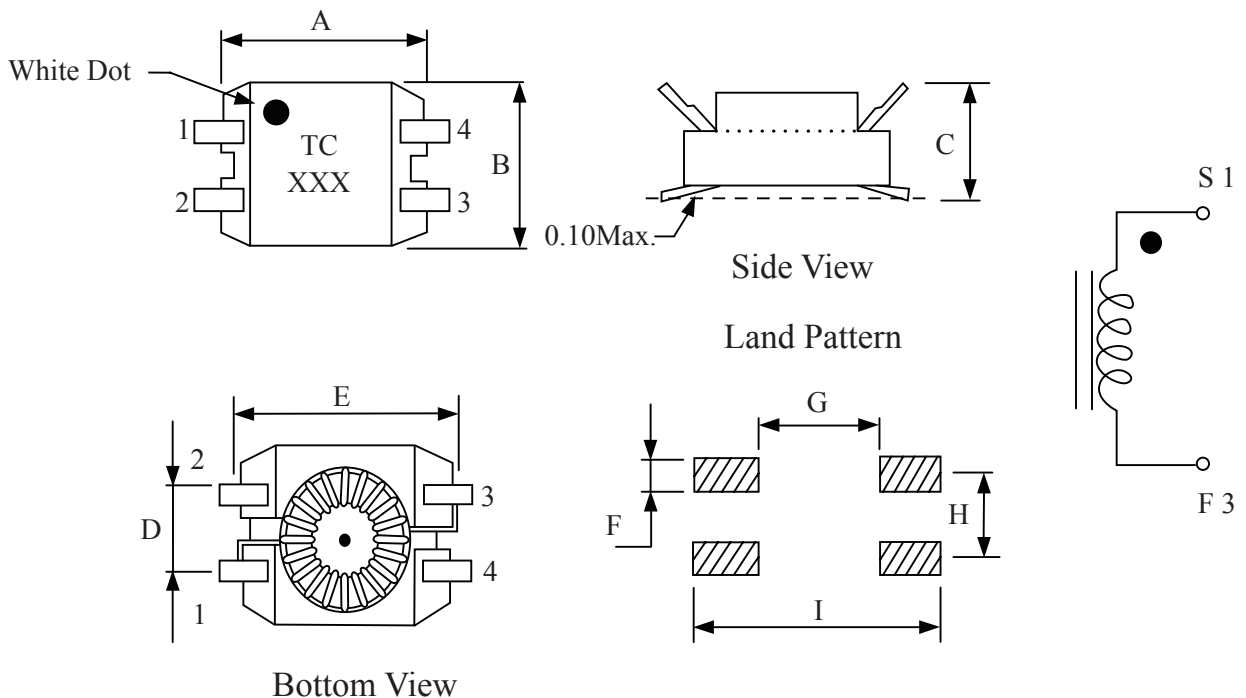
► Applications

VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

► Power Toroidal Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C(max)	D± 0.5	E± 0.2	Fnom	Gnom	Hnom	Inom
TC0950A	9.5	6.0	5.2	2.5	7.5	1.2	4.5	2.5	10.5

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC0950A Series Power Toroidal Inductors

Part Number	Inductance (μH)	IDC (A)(μH / min)	Test Freq. (KHz)	DCR (Ω)(max)	IDC (A)
TC0950A - R50N	0.5	0.36	100	0.012	5.5
TC0950A - 1R0N	1.0	0.85	100	0.016	3.5
TC0950A - 2R2N	2.2	1.70	100	0.022	2.5
TC0950A - 3R9N	3.9	2.80	100	0.041	1.8
TC0950A - 4R7L	4.7	4.00	100	0.057	1.5
TC0950A - 5R6L	5.6	4.70	100	0.060	1.4
TC0950A - 6R8L	6.8	5.50	100	0.066	1.3
TC0950A - 8R2L	8.2	7.00	100	0.075	1.2
TC0950A - 100L	10.0	8.80	100	0.097	1.0

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.



Power Inductor

► How to Order

-

① ② ③

① SMT Power Toroidal Inductors

② Inductance

Code	Inductance
R50	0.5 μ H
1R0	1.0 μ H
100	10.0 μ H

③ Tolerance

Code	Tolerance
L	15%
M	20%
N	30%





SMD Power Inductors

SMT Unshielded Power Inductors - TC32/43/52/53/54/73/75/104/105 Series

► SMT Unshielded Power Inductor Features

Open Magnetic circuit construction

Compact and thin

The electrode with ferrite core directly, Good for high mounting density.

► Applications

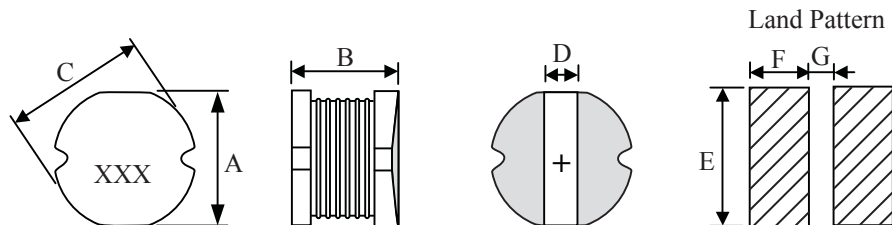
VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

► SMT Unshielded Power Inductor Dimensions & Configurations (Unit In mm)

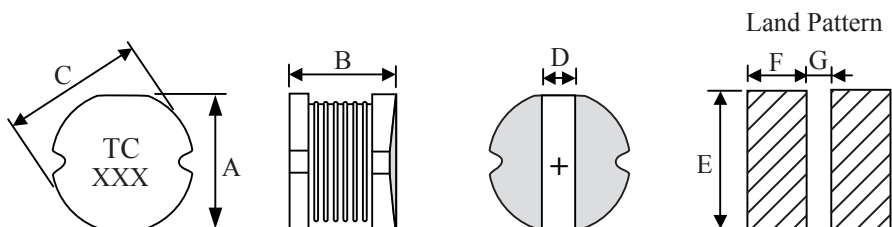
Type	A ± 0.3	B	ΦC ± 0.3	D Typ.	E	F	G
TC32	3.0	2.3(max)	3.5	1.2	3.5	1.60	0.8
TC43	4.0	3.2 ± 0.3	4.5	1.5	4.5	2.10	0.8
TC52	5.2	2.5 ± 0.3	5.8	2.0	5.5	2.25	1.5
TC53	5.2	3.0 ± 0.3	5.8	2.0	5.5	2.25	1.5
TC54	5.2	4.5 ± 0.3	5.8	2.0	5.5	2.25	1.5
TC73	7.0	3.5 ± 0.3	7.8	2.5	7.5	3.05	1.9
TC75	7.0	5.0 ± 0.3	7.8	2.5	7.5	3.05	1.9
TC104	9.0	4.0 ± 0.3	10.0	2.9	9.5	3.65	2.5
TC105	9.0	5.4 ± 0.3	10.0	2.9	9.5	3.65	2.5

Note: Design as Customer's Requested Specifications.

TC32 / TC43



TC52 / TC53 / TC54 / TC73 / TC75 / TC104 / TC105





SMD Power Inductors

► Electrical Characteristics for TC32 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC32 - 1R0M	1.00	100	0.045	2.20
TC32 - 1R2M	1.20	100	0.050	2.10
TC32 - 1R5M	1.50	100	0.055	1.70
TC32 - 1R8M	1.80	100	0.070	1.65
TC32 - 2R2M	2.20	100	0.085	1.60
TC32 - 2R7M	2.70	100	0.100	1.40
TC32 - 3R3M	3.30	100	0.120	1.05
TC32 - 3R9M	3.90	100	0.125	1.00
TC32 - 4R7M	4.70	100	0.135	1.00
TC32 - 5R6M	5.60	100	0.145	0.95
TC32 - 6R8M	6.80	100	0.200	0.95
TC32 - 8R2M	8.20	100	0.250	0.92
TC32 - 100K	10.00	100	0.320	0.90
TC32 - 120K	12.00	100	0.350	0.85
TC32 - 150K	15.00	100	0.460	0.75
TC32 - 180K	18.00	100	0.520	0.70
TC32 - 220K	22.00	100	0.650	0.60
TC32 - 270K	27.00	100	0.750	0.55
TC32 - 330K	33.00	100	0.920	0.50
TC32 - 390K	39.00	100	1.000	0.48
TC32 - 470K	47.00	100	1.150	0.45
TC32 - 560K	56.00	100	1.500	0.30
TC32 - 680K	68.00	100	2.000	0.26
TC32 - 820K	82.00	100	2.150	0.23
TC32 - 101K	100.00	100	2.500	0.20
TC32 - 121K	120.00	100	3.400	0.18
TC32 - 151K	150.00	100	4.200	0.16
TC32 - 181K	180.00	100	4.500	0.15
TC32 - 221K	220.00	100	5.100	0.14
TC32 - 271K	270.00	100	8.500	0.10
TC32 - 331K	330.00	100	9.500	0.09

Note: Test Freq. at 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TC43 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC43 - 1R0M	1.00	7.96 M	0.033	3.80
TC43 - 1R4M	1.40	7.96 M	0.038	3.30
TC43 - 1R8M	1.80	7.96 M	0.042	2.91
TC43 - 2R2M	2.20	7.96 M	0.047	2.60
TC43 - 2R7M	2.70	7.96 M	0.052	2.43
TC43 - 3R3M	3.30	7.96 M	0.058	2.15
TC43 - 3R9M	3.90	7.96 M	0.076	1.98
TC43 - 4R7M	4.70	7.96 M	0.094	1.70
TC43 - 5R6M	5.60	7.96 M	0.101	1.60
TC43 - 6R8M	6.80	7.96 M	0.117	1.41
TC43 - 8R2M	8.20	7.96 M	0.132	1.26
TC43 - 100K	10.00	2.52 M	0.182	1.15
TC43 - 120K	12.00	2.52 M	0.210	1.05
TC43 - 150K	15.00	2.52 M	0.235	0.92
TC43 - 180K	18.00	2.52 M	0.338	0.84
TC43 - 220K	22.00	2.52 M	0.378	0.76
TC43 - 270K	27.00	2.52 M	0.522	0.71
TC43 - 330K	33.00	2.52 M	0.540	0.64
TC43 - 390K	39.00	2.52 M	0.587	0.59
TC43 - 470K	47.00	2.52 M	0.844	0.54
TC43 - 560K	56.00	2.52 M	0.937	0.50
TC43 - 680K	68.00	2.52 M	1.117	0.46
TC43 - 820K	82.00	1 K	1.345	0.45
TC43 - 101K	100.00	1 K	1.520	0.44
TC43 - 121K	120.00	1 K	1.800	0.43
TC43 - 151K	150.00	1 K	2.000	0.42
TC43 - 181K	180.00	1 K	3.200	0.38
TC43 - 221K	220.00	1 K	3.400	0.36
TC43 - 271K	270.00	1 K	3.900	0.34
TC43 - 331K	330.00	1 K	5.300	0.28
TC43 - 391K	390.00	1 K	5.900	0.24
TC43 - 471K	470.00	1 K	6.800	0.21
TC43 - 561K	560.00	1 K	8.500	0.20
TC43 - 681K	680.00	1 K	10.000	0.18
TC43 - 821K	820.00	1 K	13.400	0.15
TC43 - 102K	1000.00	1 K	15.600	0.14

Note: 820 ~ 102 Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TC52 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC52 - 1R2M	1.20	100	0.050	4.20
TC52 - 1R5M	1.50	100	0.060	4.00
TC52 - 1R8M	1.80	100	0.065	3.70
TC52 - 2R2M	2.20	100	0.070	3.50
TC52 - 2R7M	2.70	100	0.080	3.20
TC52 - 3R3M	3.30	100	0.100	2.70
TC52 - 3R9M	3.90	100	0.120	2.40
TC52 - 4R7M	4.70	100	0.140	2.00
TC52 - 5R6M	5.60	100	0.150	1.80
TC52 - 6R8M	6.80	100	0.160	1.50
TC52 - 8R2M	8.20	100	0.170	1.40
TC52 - 100K	10.00	100	0.200	1.30
TC52 - 120K	12.00	100	0.230	1.10
TC52 - 150K	15.00	100	0.250	1.05
TC52 - 180K	18.00	100	0.300	1.00
TC52 - 220K	22.00	100	0.350	0.90
TC52 - 270K	27.00	100	0.400	0.85
TC52 - 330K	33.00	100	0.500	0.75
TC52 - 390K	39.00	100	0.550	0.70
TC52 - 470K	47.00	100	0.650	0.60
TC52 - 560K	56.00	100	0.750	0.55
TC52 - 680K	68.00	100	0.950	0.50
TC52 - 820K	82.00	100	1.200	0.45
TC52 - 101K	100.00	100	1.400	0.40
TC52 - 121K	120.00	100	1.750	0.35
TC52 - 151K	150.00	100	2.000	0.25
TC52 - 181K	180.00	100	2.600	0.22
TC52 - 221K	220.00	100	3.000	0.20
TC52 - 271K	270.00	100	3.700	0.18
TC52 - 331K	330.00	100	4.300	0.17
TC52 - 391K	390.00	100	6.000	0.16
TC52 - 471K	470.00	100	6.700	0.15

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TC53 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC53 - 1R0M	1.00	7.96 M	0.030	4.50
TC53 - 1R2M	1.20	7.96 M	0.030	4.20
TC53 - 1R5M	1.50	7.96 M	0.030	4.10
TC53 - 1R8M	1.80	7.96 M	0.030	3.70
TC53 - 2R2M	2.20	7.96 M	0.030	3.50
TC53 - 2R7M	2.70	7.96 M	0.040	3.20
TC53 - 3R3M	3.30	7.96 M	0.050	2.80
TC53 - 3R9M	3.90	7.96 M	0.060	2.60
TC53 - 4R7M	4.70	7.96 M	0.070	2.50
TC53 - 5R6M	5.60	7.96 M	0.080	2.40
TC53 - 6R8M	6.80	7.96 M	0.090	2.20
TC53 - 8R2M	8.20	7.96 M	0.100	2.00
TC53 - 100K	10.00	2.52 M	0.120	1.80
TC53 - 120K	12.00	2.52 M	0.130	1.75
TC53 - 150K	15.00	2.52 M	0.150	1.70
TC53 - 180K	18.00	2.52 M	0.180	1.60
TC53 - 220K	22.00	2.52 M	0.220	1.50
TC53 - 270K	27.00	2.52 M	0.240	1.40
TC53 - 330K	33.00	2.52 M	0.300	1.10
TC53 - 390K	39.00	2.52 M	0.400	1.00
TC53 - 470K	47.00	2.52 M	0.430	0.90
TC53 - 560K	56.00	2.52 M	0.500	0.85
TC53 - 680K	68.00	2.52 M	0.600	0.80
TC53 - 820K	82.00	2.52 M	0.800	0.65
TC53 - 101K	100.00	1 K	0.900	0.60
TC53 - 121K	120.00	1 K	1.000	0.58
TC53 - 151K	150.00	1 K	1.300	0.43
TC53 - 181K	180.00	1 K	1.500	0.41
TC53 - 221K	220.00	1 K	2.000	0.38
TC53 - 271K	270.00	1 K	2.500	0.35
TC53 - 331K	330.00	1 K	3.200	0.28
TC53 - 391K	390.00	1 K	3.500	0.26
TC53 - 471K	470.00	1 K	4.200	0.20
TC53 - 561K	560.00	1 K	4.500	0.19
TC53 - 681K	680.00	1 K	6.000	0.18
TC53 - 821K	820.00	1 K	6.500	0.15
TC53 - 102K	1000.00	1 K	8.000	0.13

Note: 101~102 Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TC54 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC54 - 1R0M	1.00	7.96 M	0.015	5.90
TC54 - 1R2M	1.20	7.96 M	0.020	5.20
TC54 - 1R5M	1.50	7.96 M	0.025	4.70
TC54 - 1R8M	1.80	7.96 M	0.030	4.00
TC54 - 2R2M	2.20	7.96 M	0.035	3.80
TC54 - 2R7M	2.70	7.96 M	0.040	3.40
TC54 - 3R3M	3.30	7.96 M	0.045	3.30
TC54 - 3R9M	3.90	7.96 M	0.050	2.90
TC54 - 4R7M	4.70	7.96 M	0.060	2.80
TC54 - 5R6M	5.60	7.96 M	0.070	2.40
TC54 - 6R8M	6.80	7.96 M	0.080	2.10
TC54 - 8R2M	8.20	7.96 M	0.090	2.00
TC54 - 100K	10.00	2.52 M	0.100	1.44
TC54 - 120K	12.00	2.52 M	0.120	1.40
TC54 - 150K	15.00	2.52 M	0.140	1.30
TC54 - 180K	18.00	2.52 M	0.150	1.23
TC54 - 220K	22.00	2.52 M	0.180	1.11
TC54 - 270K	27.00	2.52 M	0.200	0.97
TC54 - 330K	33.00	2.52 M	0.230	0.88
TC54 - 390K	39.00	2.52 M	0.320	0.80
TC54 - 470K	47.00	2.52 M	0.370	0.72
TC54 - 560K	56.00	2.52 M	0.420	0.68
TC54 - 680K	68.00	2.52 M	0.460	0.61
TC54 - 820K	82.00	2.52 M	0.600	0.58
TC54 - 101K	100.00	1 K	0.700	0.52
TC54 - 121K	120.00	1 K	0.930	0.48
TC54 - 151K	150.00	1 K	1.100	0.40
TC54 - 181K	180.00	1 K	1.380	0.38
TC54 - 221K	220.00	1 K	1.570	0.35
TC54 - 271K	270.00	1 K	1.650	0.32
TC54 - 331K	330.00	1 K	1.700	0.28
TC54 - 391K	390.00	1 K	1.800	0.26
TC54 - 471K	470.00	1 K	2.300	0.23
TC54 - 561K	560.00	1 K	2.500	0.20
TC54 - 681K	680.00	1 K	3.000	0.19
TC54 - 821K	820.00	1 K	4.500	0.16
TC54 - 102K	1000.00	1 K	4.800	0.14

Note: 101~102 Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.





SMD Power Inductors

► Electrical Characteristics for TC73 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC73 - 100K	10.00	2.52 M	0.080	1.44
TC73 - 120K	12.00	2.52 M	0.090	1.39
TC73 - 150K	15.00	2.52 M	0.100	1.24
TC73 - 180K	18.00	2.52 M	0.110	1.12
TC73 - 220K	22.00	2.52 M	0.130	1.07
TC73 - 270K	27.00	2.52 M	0.150	0.94
TC73 - 330K	33.00	2.52 M	0.170	0.85
TC73 - 390K	39.00	2.52 M	0.220	0.74
TC73 - 470K	47.00	2.52 M	0.250	0.68
TC73 - 560K	56.00	2.52 M	0.280	0.64
TC73 - 680K	68.00	2.52 M	0.330	0.59
TC73 - 820K	82.00	2.52 M	0.410	0.54
TC73 - 101K	100.00	1 K	0.480	0.51
TC73 - 121K	120.00	1 K	0.540	0.49
TC73 - 151K	150.00	1 K	0.750	0.40
TC73 - 181K	180.00	1 K	1.020	0.36
TC73 - 221K	220.00	1 K	1.200	0.31
TC73 - 271K	270.00	1 K	1.310	0.29
TC73 - 331K	330.00	1 K	1.500	0.28
TC73 - 391K	390.00	1 K	1.800	0.26
TC73 - 471K	470.00	1 K	1.950	0.23
TC73 - 561K	560.00	1 K	2.300	0.21
TC73 - 681K	680.00	1 K	2.700	0.13
TC73 - 821K	820.00	1 K	3.200	0.11
TC73 - 102K	1000.00	1 K	3.800	0.08

Note: 101~102 Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TC75 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC75 - 100K	10.00	2.52 M	0.070	2.30
TC75 - 120K	12.00	2.52 M	0.080	2.00
TC75 - 150K	15.00	2.52 M	0.090	1.80
TC75 - 180K	18.00	2.52 M	0.100	1.60
TC75 - 220K	22.00	2.52 M	0.110	1.50
TC75 - 270K	27.00	2.52 M	0.120	1.30
TC75 - 330K	33.00	2.52 M	0.130	1.20
TC75 - 390K	39.00	2.52 M	0.160	1.10
TC75 - 470K	47.00	2.52 M	0.180	1.10
TC75 - 560K	56.00	2.52 M	0.240	0.94
TC75 - 680K	68.00	2.52 M	0.280	0.85
TC75 - 820K	82.00	2.52 M	0.370	0.78
TC75 - 101K	100.00	1 K	0.430	0.72
TC75 - 121K	120.00	1 K	0.470	0.66
TC75 - 151K	150.00	1 K	0.640	0.58
TC75 - 181K	180.00	1 K	0.710	0.51
TC75 - 221K	220.00	1 K	0.960	0.49
TC75 - 271K	270.00	1 K	1.110	0.42
TC75 - 331K	330.00	1 K	1.260	0.40
TC75 - 391K	390.00	1 K	1.770	0.36
TC75 - 471K	470.00	1 K	1.960	0.34
TC75 - 561K	560.00	1 K	2.000	0.33
TC75 - 681K	680.00	1 K	2.200	0.32
TC75 - 821K	820.00	1 K	2.900	0.25
TC75 - 102K	1000.00	1 K	3.900	0.20

Note: 101~102 Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.





SMD Power Inductors

► Electrical Characteristics for TC104 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC104 - 100K	10.00	2.52 M	0.053	2.38
TC104 - 120K	12.00	2.52 M	0.061	2.13
TC104 - 150K	15.00	2.52 M	0.070	1.87
TC104 - 180K	18.00	2.52 M	0.081	1.73
TC104 - 220K	22.00	2.52 M	0.088	1.60
TC104 - 270K	27.00	2.52 M	0.100	1.44
TC104 - 330K	33.00	2.52 M	0.120	1.26
TC104 - 390K	39.00	2.52 M	0.151	1.20
TC104 - 470K	47.00	2.52 M	0.170	1.10
TC104 - 560K	56.00	2.52 M	0.199	1.01
TC104 - 680K	68.00	2.52 M	0.223	0.91
TC104 - 820K	82.00	2.52 M	0.252	0.85
TC104 - 101K	100.00	1 K	0.344	0.74
TC104 - 121K	120.00	1 K	0.396	0.69
TC104 - 151K	150.00	1 K	0.544	0.61
TC104 - 181K	180.00	1 K	0.621	0.56
TC104 - 221K	220.00	1 K	0.721	0.53
TC104 - 271K	270.00	1 K	0.949	0.45
TC104 - 331K	330.00	1 K	1.100	0.42
TC104 - 391K	390.00	1 K	1.245	0.38
TC104 - 471K	470.00	1 K	1.526	0.35
TC104 - 561K	560.00	1 K	1.904	0.32
TC104 - 681K	680.00	1 K	2.200	0.31
TC104 - 821K	820.00	1 K	2.700	0.30
TC104 - 102K	1000.00	1 K	3.500	0.29

Note: 101~102 Test Freq.: 1KHz / 0.25V
 Operating Temp.: -40°C ~ +85°C.
 Inductance drop=10% typ. at IDC.





SMD Power Inductors

► Electrical Characteristics for TC105 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(Hz)	DCR (Ω)(max)	IDC (A)(max)
TC105 - 100K	10.00	2.52 M	0.060	2.60
TC105 - 120K	12.00	2.52 M	0.070	2.45
TC105 - 150K	15.00	2.52 M	0.080	2.27
TC105 - 180K	18.00	2.52 M	0.090	2.15
TC105 - 220K	22.00	2.52 M	0.100	1.95
TC105 - 270K	27.00	2.52 M	0.110	1.76
TC105 - 330K	33.00	2.52 M	0.120	1.50
TC105 - 390K	39.00	2.52 M	0.140	1.37
TC105 - 470K	47.00	2.52 M	0.170	1.28
TC105 - 560K	56.00	2.52 M	0.190	1.17
TC105 - 680K	68.00	2.52 M	0.220	1.11
TC105 - 820K	82.00	2.52 M	0.250	1.00
TC105 - 101K	100.00	1 K	0.350	0.97
TC105 - 121K	120.00	1 K	0.400	0.89
TC105 - 151K	150.00	1 K	0.470	0.78
TC105 - 181K	180.00	1 K	0.630	0.72
TC105 - 221K	220.00	1 K	0.730	0.66
TC105 - 271K	270.00	1 K	0.970	0.57
TC105 - 331K	330.00	1 K	1.150	0.52
TC105 - 391K	390.00	1 K	1.300	0.48
TC105 - 471K	470.00	1 K	1.480	0.42
TC105 - 561K	560.00	1 K	1.900	0.33
TC105 - 681K	680.00	1 K	2.250	0.28
TC105 - 821K	820.00	1 K	2.550	0.24
TC105 - 102K	1000.00	1 K	3.000	0.20

Note: 101~102 Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order

TC32	-	1R0	M
①		②	③

① SMT Unshielded Power Inductors:TC32, TC43, TC52, TC53, TC54, TC73, TC75, TC104, TC105

② Inductance

Code	Inductance
1R0	1.00 μ H
100	10.00 μ H
101	100.00 μ H
102	1000.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Power Inductors SMD Unshielded - TC1608DF Series

► Power Inductor SMD Unshielded Features

Open Magnetic circuit construction
Compact and thin

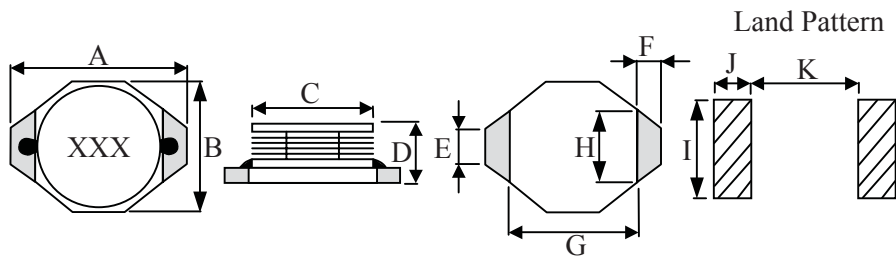
► Applications

Notebook, Cellular Phone, DC/DC converter, PDA.

► Power Inductor SMD Unshielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	H ± 0.3	I	J	K
TC1608DF	6.60	4.45	4.00	2.92	1.27	1.02	4.32	2.50	3.56	1.40	4.06

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC1608DF Series Power Inductor SMD Unshielded

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC1608DF - 1R0M	1.00	100	0.050	2.90
TC1608DF - 1R5M	1.50	100	0.050	2.60
TC1608DF - 2R2M	2.20	100	0.070	2.30
TC1608DF - 3R3M	3.30	100	0.080	2.00
TC1608DF - 4R7M	4.70	100	0.090	1.50
TC1608DF - 6R8M	6.80	100	0.130	1.20
TC1608DF - 100M	10.00	100	0.160	1.10
TC1608DF - 150M	15.00	100	0.230	0.90
TC1608DF - 220M	22.00	100	0.370	0.70
TC1608DF - 330M	33.00	100	0.510	0.58
TC1608DF - 470M	47.00	100	0.640	0.50
TC1608DF - 680M	68.00	100	0.860	0.40
TC1608DF - 101M	100.00	100	1.270	0.31
TC1608DF - 151M	150.00	100	2.000	0.27
TC1608DF - 221M	220.00	100	3.110	0.22
TC1608DF - 331M	330.00	100	3.800	0.18
TC1608DF - 471M	470.00	100	5.060	0.16
TC1608DF - 681M	680.00	100	9.200	0.14
TC1608DF - 102M	1000.00	100	13.800	0.10

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.





SMD Power Inductors

► How to Order

TC1608DF - 1R0 M

① ② ③

① SMD Unshielded Power Inductors

② Inductance

Code	Inductance
1R0	1.0 μ H
100	10.00 μ H
101	100.00 μ H
102	1000.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

Power Inductors SMT Unshielded - TC3308DF / 3316DF / 3340DF Series

► Power Inductor SMT Unshielded Features

- Open Magnetic circuit construction
- Compact and thin
- Mn-Zn material core
- Available in various sizes

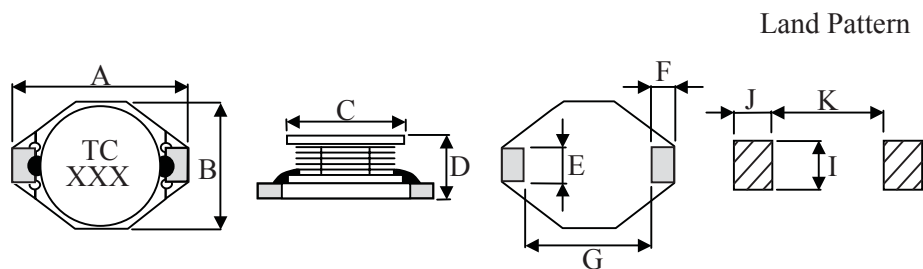
► Applications

Notebook, VGA card, DC/DC converter, PDA.

► Power Inductor SMT Unshielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	I	J	K
TC3308DF	12.95	9.40	8.38	3.00	2.54	2.54	7.62	2.79	2.92	7.37
TC3316DF	12.95	9.40	8.38	5.21	2.54	2.54	7.62	2.79	2.92	7.37
TC3340DF	12.95	9.40	8.38	11.43	2.54	2.54	7.62	2.79	2.92	7.37

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC3308DF Series Power Inductor SMT Unshielded

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC3308DF - 100M	10.00	100	0.110	2.40
TC3308DF - 150M	15.00	100	0.150	2.00
TC3308DF - 220M	22.00	100	0.230	1.60
TC3308DF - 330M	33.00	100	0.300	1.40
TC3308DF - 470M	47.00	100	0.390	1.00
TC3308DF - 680M	68.00	100	0.660	0.90
TC3308DF - 101M	100.00	100	0.840	0.70
TC3308DF - 151M	150.00	100	1.200	0.60
TC3308DF - 221M	220.00	100	1.900	0.50
TC3308DF - 331M	330.00	100	2.700	0.40
TC3308DF - 471M	470.00	100	4.000	0.30
TC3308DF - 681M	680.00	100	5.300	0.20
TC3308DF - 102M	1000.00	100	8.400	0.10

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TC3316DF Series Power Inductor SMT Unshielded

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC3316DF - 1R0M	1.00	100	0.009	9.00
TC3316DF - 1R5M	1.50	100	0.010	8.00
TC3316DF - 2R2M	2.20	100	0.012	7.00
TC3316DF - 3R3M	3.30	100	0.015	6.40
TC3316DF - 4R7M	4.70	100	0.018	5.40
TC3316DF - 6R8M	6.80	100	0.027	4.60
TC3316DF - 100M	10.00	100	0.038	3.80
TC3316DF - 150M	15.00	100	0.046	3.00
TC3316DF - 220M	22.00	100	0.085	2.60
TC3316DF - 330M	33.00	100	0.100	2.00
TC3316DF - 470M	47.00	100	0.140	1.60
TC3316DF - 680M	68.00	100	0.200	1.40
TC3316DF - 101M	100.00	100	0.280	1.20
TC3316DF - 151M	150.00	100	0.400	1.00
TC3316DF - 221M	220.00	100	0.610	0.80
TC3316DF - 331M	330.00	100	1.020	0.60
TC3316DF - 471M	470.00	100	1.270	0.50
TC3316DF - 681M	680.00	100	2.020	0.40
TC3316DF - 102M	1000.00	100	3.000	0.30

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.

► Electrical Characteristics for TC3340DF Series Power Inductor SMT Unshielded

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC3340DF - 100M	10.00	100	0.040	8.00
TC3340DF - 150M	15.00	100	0.050	7.00
TC3340DF - 220M	22.00	100	0.066	5.50
TC3340DF - 330M	33.00	100	0.080	4.00
TC3340DF - 470M	47.00	100	0.110	3.80
TC3340DF - 680M	68.00	100	0.170	3.00
TC3340DF - 101M	100.00	100	0.220	2.50
TC3340DF - 151M	150.00	100	0.340	2.00
TC3340DF - 221M	220.00	100	0.440	1.60
TC3340DF - 331M	330.00	100	0.700	1.20
TC3340DF - 471M	470.00	100	0.950	1.00
TC3340DF - 681M	680.00	100	1.200	1.00
TC3340DF - 102M	1000.00	100	2.000	0.80

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► How to Order

TC3308DF - 100 M

① ② ③

① Power Inductors SMT Unshielded: TC3308DF, TC3316DF, TC3340DF

② Inductance

Code	Inductance
1R0	1.0 μ H
100	10.00 μ H
101	100.00 μ H
102	1000.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Power Inductor SMD Unshielded - TC5022DF Series

► Power Inductor SMD Unshielded Features

- Open Magnetic circuit construction
- Compact and thin
- Mn-Zn material core
- Large Current and Low DCR

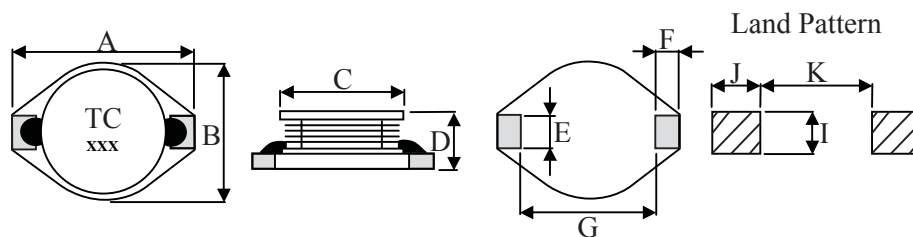
► Applications

Notebook, DC/DC converter, handheld devise.

► Power Inductor SMD Unshielded Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.3	D(max)	E ± 0.3	F ± 0.3	G ± 0.3	I	J	K
TC5022DF	18.54	15.24	12.70	7.11	2.54	2.54	12.70	2.79	2.92	12.45

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC5022DF Series Power Inductor SMD Unshielded

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC5022DF - 1R0M	1.00	100	0.009	20.00
TC5022DF - 2R2M	2.20	100	0.014	16.00
TC5022DF - 3R3M	3.30	100	0.015	14.00
TC5022DF - 5R6M	5.60	100	0.020	12.00
TC5022DF - 100M	10.00	100	0.031	10.00
TC5022DF - 150M	15.00	100	0.036	8.00
TC5022DF - 220M	22.00	100	0.047	7.00
TC5022DF - 330M	33.00	100	0.066	5.50
TC5022DF - 470M	47.00	100	0.086	4.50
TC5022DF - 680M	68.00	100	0.130	3.50
TC5022DF - 101M	100.00	100	0.190	3.00
TC5022DF - 151M	150.00	100	0.250	2.60
TC5022DF - 221M	220.00	100	0.380	2.40
TC5022DF - 331M	330.00	100	0.560	1.90
TC5022DF - 471M	470.00	100	0.850	1.40
TC5022DF - 681M	680.00	100	1.100	1.20
TC5022DF - 102M	1000.00	100	1.800	1.00

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► How to Order

TC5022DF - 1R0 M

① ② ③

① SMT Unshielded Power Inductors

② Inductance

Code	Inductance
1R0	1.0 μ H
100	10.00 μ H
101	100.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Unshielded SMD Power Inductors - TC1813DHP Series

► Unshielded SMD Power Inductor Features

- Open Magnetic circuit construction
- Compact and thin
- Less than 4.7mm high
- Large Current and Low DCR

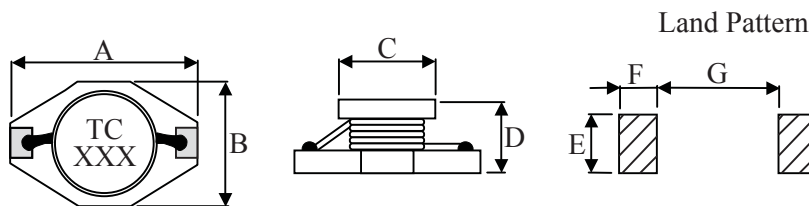
► Applications

- Notebook, High power DC-DC applications

► Unshielded SMD Power Inductor Dimensions & Configurations (Unit In mm)

Type	A(max)	B(max)	C ± 0.2	D(max)	E	F	G
TC1813DHP	9.10	6.10	4.80	4.70	3.50	2.20	4.80

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC1813DHP Series Unshielded SMD Power Inductors

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC1813DHP - R56N	0.56	100	0.010	7.70
TC1813DHP - 1R2M	1.20	100	0.017	5.30
TC1813DHP - 2R2M	2.20	100	0.035	3.50
TC1813DHP - 4R7M	4.70	100	0.054	2.60
TC1813DHP - 100M	10.00	100	0.111	1.90
TC1813DHP - 150M	15.00	100	0.170	1.50
TC1813DHP - 220M	22.00	100	0.250	1.20
TC1813DHP - 330M	33.00	100	0.350	0.99
TC1813DHP - 470M	47.00	100	0.470	0.87

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C

Inductance drop=10% typ. at IDC.

► How to Order



① Unshielded SMD Power Inductor

② Inductance

Code	Inductance
R56	0.56μH
1R2	1.20μH
100	10.00μH

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Power Inductor SMD Unshielded - TC3316DHP Series

► Power Inductor SMD Unshielded Features

- Magnetic circuit construction
- Compact and thin
- Mn-Zn material core
- Rugged self-leaded construction

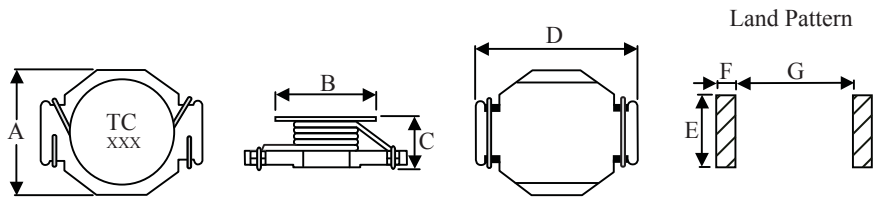
► Applications

Notebook, Low voltage DC-DC converter, power supply applications.

► Power Inductor SMD Unshielded Dimensions & Configurations (Unit: mm)

Type	A(max)	B ± 0.3	C(max)	D(max)	E	F	G
TC3316DHP	9.91	8.38	6.35	13.21	4.06	1.52	8.64

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TC3316DHP Series Power Inductor SMD Unshielded

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC3316DHP - R33N	0.33	100	0.002	20.00
TC3316DHP - R68N	0.68	100	0.005	13.00
TC3316DHP - 1R0N	1.00	100	0.006	11.00
TC3316DHP - 1R5M	1.50	100	0.008	9.00
TC3316DHP - 2R2M	2.20	100	0.011	7.80
TC3316DHP - 2R7M	2.70	100	0.012	7.00
TC3316DHP - 3R3M	3.30	100	0.014	6.40
TC3316DHP - 4R7M	4.70	100	0.018	5.40

Note: Test Freq.: 100KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order

TC3316DHP	-	R33	N
①		②	③

① SMD Unshielded Power Inductors

② Inductance

Code	Inductance
R33	0.33 μ H
1R5	1.50 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Unshielded SMD Power Inductors - TC5022DHP Series

► Unshielded SMD Power Inductor Features

- Open Magnetic circuit construction
- Compact and thin
- 8mm high for large current and low DCR.
- Rugged self-leded construction.

► Applications

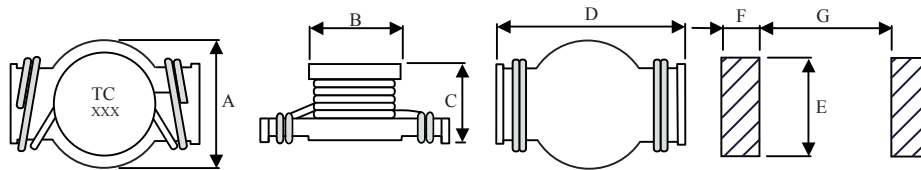
- Notebook, Low voltage DC-DC converter

► Unshielded SMD Power Inductor Dimensions & Configurations (Unit: mm)

Type	A(max)	B ± 0.3	C(max)	D(max)	E	F	G
TC5022DHP	16.26	12.70	8.00	22.35	8.64	3.18	14.35

Note: Design as Customer's Requested Specifications.

Land Pattern



► Electrical Characteristics for TC5022DHP Series Unshielded SMD Power Inductors

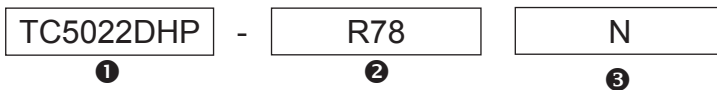
Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TC5022DHP - R78N	0.78	100	0.0026	30.00
TC5022DHP - 1R5M	1.50	100	0.0040	25.00
TC5022DHP - 2R2M	2.20	100	0.0061	20.00
TC5022DHP - 3R3M	3.30	100	0.0086	17.00
TC5022DHP - 3R9M	3.90	100	0.010	15.00
TC5022DHP - 4R7M	4.70	100	0.014	13.00
TC5022DHP - 6R0M	6.00	100	0.017	12.00
TC5022DHP - 7R8M	7.80	100	0.018	11.00
TC5022DHP - 100M	10.00	100	0.026	10.00
TC5022DHP - 150M	15.00	100	0.032	8.00

Note: Test Freq.: 100KHz / 0.1V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order



① SMD Unshielded Power Inductors: TC5022DHP

② Inductance

Code	Inductance
R78	0.78 μ H
1R5	1.50 μ H
100	10.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

SMT Unshielded Power Inductors - TCD4006/4008 Series

► SMT Unshielded Power Inductor Features

- Open Magnetic circuit construction
- Low Profile

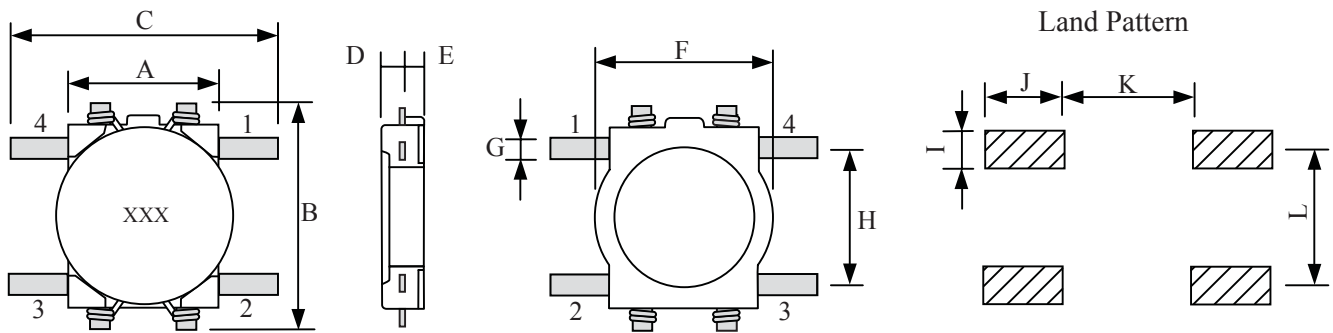
► Applications

- LCD Driver
- Cellular Phone
- Small DC/DC converter
- Transformers

► SMT Unshielded Power Inductor Dimensions & Configurations (Unit: mm)

Type	A	B(max)	C(max)	D(max)	E	F	G	H	I	J	K	L
TCD4006	3.5	5.8	6.3	0.8	0.4	4.1	0.5	3.2	0.9	1.5	4.0	3.2
TCD4008	3.5	5.8	6.3	1.0	0.4	4.1	0.5	3.2	0.9	1.5	4.0	3.2

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCD4006 Series SMT Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD4006 - 2R2M	2.20	100	0.116	0.95
TCD4006 - 3R3M	3.30	100	0.174	0.77
TCD4006 - 4R7M	4.70	100	0.216	0.75
TCD4006 - 6R8M	6.80	100	0.296	0.62
TCD4006 - 100M	10.00	100	0.457	0.50
TCD4006 - 150M	15.00	100	0.676	0.40
TCD4006 - 220M	22.00	100	1.066	0.30
TCD4006 - 330M	33.00	100	1.647	0.24
TCD4006 - 470M	47.00	100	2.843	0.18

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCD4008 Series SMT Unshielded Power Inductors

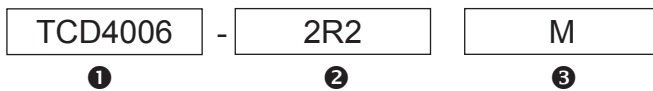
Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD4008-3R3M	3.30	100	0.160	0.85
TCD4008-4R7M	4.70	100	0.194	0.80
TCD4008-6R8M	6.80	100	0.276	0.65
TCD4008-100M	10.00	100	0.335	0.57
TCD4008-150M	15.00	100	0.508	0.45
TCD4008-220M	22.00	100	0.766	0.37
TCD4008-330M	33.00	100	1.162	0.28
TCD4008-470M	47.00	100	1.658	0.22
TCD4008-680M	68.00	100	2.534	0.18
TCD4008-101M	100.00	100	3.304	0.17

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order



❶ SMT Unshielded Power Inductors: TCD4006, TCD4008

❷ Inductance

Code	Inductance
2R2	2.20 μ H
100	10.00 μ H
101	100.00 μ H

❸ Tolerance

Code	Tolerance
M	20%
N	30%





SMD Power Inductors

SMT Unshielded Power Inductor - TCD4011/4013 Series

► SMT Unshielded Power Inductor Features

- Open Magnetic circuit construction
- Low Profile

► Applications

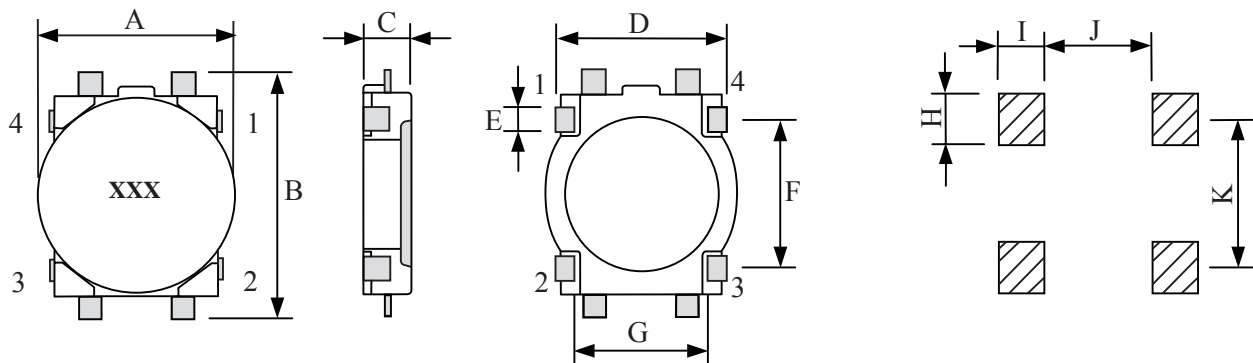
- LCD Driver
- Cellular Phone
- Small DC/DC converter
- Transformers

► SMT Unshielded Power Inductor Dimensions & Configurations (Unit: mm)

Type	A(max)	B(max)	C(max)	D	E	F	G	H	I	J	K
TCD4011	4.4	5.8	1.2	3.7	0.5	3.2	2.9	0.8	1.4	2.5	3.2
TCD4013	4.4	5.8	1.45	3.7	0.5	3.2	2.9	0.8	1.4	2.5	3.2

Note: Design as Customer's Requested Specifications.

Land Pattern



► Electrical Characteristics for TCD4011 Series SMT Unshielded Power Inductor

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD4011 - 2R2M	2.20	100	0.116	0.95
TCD4011 - 3R3M	3.30	100	0.174	0.77
TCD4011 - 4R7M	4.70	100	0.216	0.75
TCD4011 - 6R8M	6.80	100	0.296	0.62
TCD4011 - 100M	10.00	100	0.457	0.50
TCD4011 - 150M	15.00	100	0.676	0.40
TCD4011 - 220M	22.00	100	1.066	0.30
TCD4011 - 330M	33.00	100	1.647	0.24
TCD4011 - 470M	47.00	100	2.843	0.18

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCD4013 Series SMT Unshielded Power Inductor

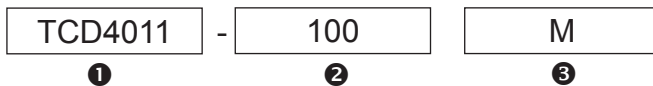
Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD4013 - 3R3M	3.30	100	0.160	0.85
TCD4013 - 4R7M	4.70	100	0.194	0.80
TCD4013 - 6R8M	6.80	100	0.276	0.65
TCD4013 - 100M	10.00	100	0.335	0.57
TCD4013 - 150M	15.00	100	0.508	0.45
TCD4013 - 220M	22.00	100	0.766	0.37
TCD4013 - 330M	33.00	100	1.162	0.28
TCD4013 - 470M	47.00	100	1.658	0.22
TCD4013 - 680M	33.00	100	2.534	0.18
TCD4013 - 101M	47.00	100	3.304	0.17

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.

► How to Order



❶ SMT Unshielded Power Inductors: TCD4011, TCD4013

❷ Inductance

Code	Inductance
2R2	2.20 μ H
100	10.00 μ H
101	100.00 μ H

❸ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%





SMD Power Inductors

SMD Unshielded Power Inductors - TCD5011 Series

► SMD Unshielded Power Inductor Features

- Open Magnetic circuit construction
- Low Profile

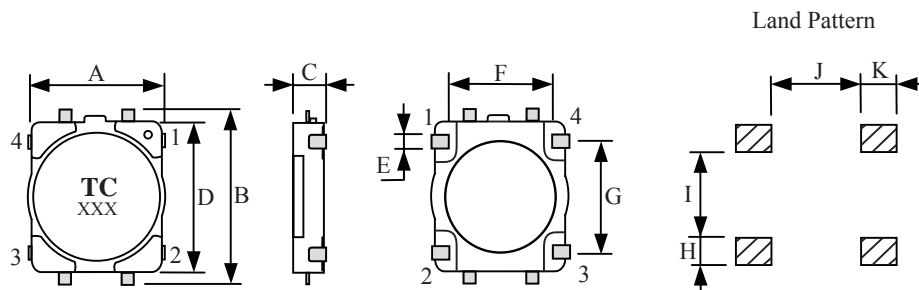
► Applications

- LCD Driver
- Cellular Phone
- Small DC/DC converter
- Transformers

► SMD Unshielded Power Inductor Dimensions & Configurations (Unit: mm)

Type	A(max)	B(max)	C(max)	D	E	F	G	H	I	J	K
TCD5011	5.8	7.4	1.2	6.0	0.6	4.2	4.5	1.1	3.4	3.6	1.4
TCD5013	5.8	7.4	1.5	6.0	0.6	4.2	4.5	1.1	3.4	3.6	1.4

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCD5011 Series SMD Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD5011 - 3R3M	3.30	100	0.109	0.94
TCD5011 - 4R7M	4.70	100	0.156	0.80
TCD5011 - 6R8M	6.80	100	0.216	0.65
TCD5011 - 100M	10.00	100	0.275	0.53
TCD5011 - 150M	15.00	100	0.438	0.40
TCD5011 - 220M	22.00	100	0.663	0.36
TCD5011 - 330M	33.00	100	0.975	0.32
TCD5011 - 470M	47.00	100	1.380	0.26
TCD5011 - 680M	68.00	100	1.700	0.23
TCD5011 - 101M	100.00	100	2.800	0.20

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► Electrical Characteristics for TCD5013 Series SMD Unshielded Power Inductors

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD5013 - 3R3M	3.30	100	0.081	1.25
TCD5013 - 4R7M	4.70	100	0.106	1.20
TCD5013 - 6R8M	6.80	100	0.144	0.90
TCD5013 - 100M	10.00	100	0.187	0.85
TCD5013 - 150M	15.00	100	0.300	0.57
TCD5013 - 220M	22.00	100	0.431	0.54
TCD5013 - 330M	33.00	100	0.637	0.38
TCD5013 - 470M	47.00	100	0.875	0.35

Note: Test Freq.: 100KHz / 0.1V.

Operating Temp.: -40°C ~ +85°C.

Inductance drop=35% typ. at IDC.

► How to Order

TCD5011	-	100	-	M
❶		❷		❸

❶ SMD Unshielded Power Inductor: TCD5011, TCD5013

❷ Inductance

Code	Inductance
3R3	3.30 μ H
100	10.00 μ H
101	100.00 μ H

❸ Tolerance

Code	Tolerance
M	20%
N	30%



SMD Power Inductors

SMD Power Inductors Unshielded - TCD73F/75F Series

► SMD Power Inductor Unshielded Features

Low profile (3.5mm Height and 7.4mm Width max.)
For large currents.

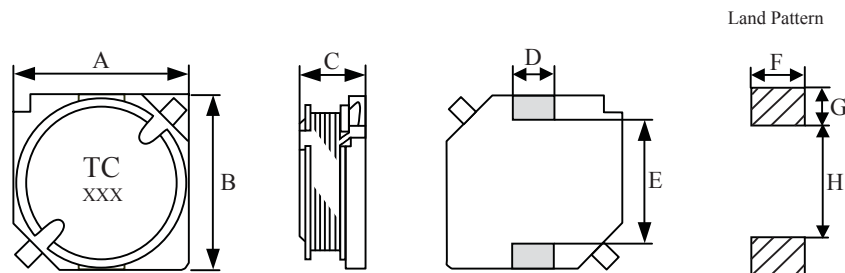
► Applications

Notebook, Portable communication equipments, DC/DC converters, etc..

► SMD Power Inductor Unshielded Dimensions & Configurations (Unit: mm)

Type	A(max)	B(max)	C(max)	D ± 0.2	E(max)	F	G	H
TCD73F	7.4	7.4	3.5	2.0	5.4	3.0	2.0	4.4
TCD75F	7.4	7.4	5.1	2.0	5.4	3.0	2.0	4.4

Note: Design as Customer's Requested Specifications.



► Electrical Characteristics for TCD73F Series SMD Power Inductor Unshielded

Part Number	Inductance(μH)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD73F - 1R0M	1.00	1	0.022	2.88
TCD73F - 1R5M	1.50	1	0.026	2.67
TCD73F - 2R2M	2.20	1	0.032	2.40
TCD73F - 3R3M	3.30	1	0.041	2.08
TCD73F - 4R7M	4.70	1	0.049	1.92
TCD73F - 6R8M	6.80	1	0.067	1.60
TCD73F - 100M	10.00	1	0.085	1.41
TCD73F - 120M	12.00	1	0.100	1.28
TCD73F - 150M	15.00	1	0.130	1.12
TCD73F - 180M	18.00	1	0.160	1.00
TCD73F - 220M	22.00	1	0.180	0.93
TCD73F - 270M	27.00	1	0.240	0.80
TCD73F - 330M	33.00	1	0.290	0.72
TCD73F - 390M	39.00	1	0.340	0.66
TCD73F - 470M	47.00	1	0.410	0.59
TCD73F - 560M	56.00	1	0.480	0.55
TCD73F - 680M	68.00	1	0.600	0.49
TCD73F - 820M	82.00	1	0.710	0.44
TCD73F - 101M	100.00	1	0.950	0.38

Note: Test Freq.: 1KHz / 0.25V

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.





SMD Power Inductors

► Electrical Characteristics for TCD75F Series SMD Power Inductor Unshielded

Part Number	Inductance(μ H)	Test Freq.(KHz)	DCR (Ω)(max)	IDC (A)(max)
TCD75F - 1R0M	1.00	1	0.023	2.880
TCD75F - 1R5M	1.50	1	0.028	2.560
TCD75F - 2R2M	2.20	1	0.032	2.360
TCD75F - 2R7M	2.70	1	0.035	2.360
TCD75F - 3R3M	3.30	1	0.038	2.160
TCD75F - 3R9M	3.90	1	0.042	2.160
TCD75F - 4R7M	4.70	1	0.049	1.880
TCD75F - 5R6M	5.60	1	0.055	1.880
TCD75F - 6R8M	6.80	1	0.060	1.680
TCD75F - 8R2M	8.20	1	0.067	1.680
TCD75F - 100M	10.00	1	0.070	1.560
TCD75F - 120M	12.00	1	0.080	1.440
TCD75F - 150M	15.00	1	0.090	1.360
TCD75F - 180M	18.00	1	0.100	1.280
TCD75F - 220M	22.00	1	0.120	1.170
TCD75F - 270M	27.00	1	0.140	1.070
TCD75F - 330M	33.00	1	0.160	1.000
TCD75F - 390M	39.00	1	0.190	0.910
TCD75F - 470M	47.00	1	0.220	0.840
TCD75F - 560M	56.00	1	0.290	0.720
TCD75F - 680M	68.00	1	0.340	0.660
TCD75F - 820M	82.00	1	0.460	0.580
TCD75F - 101M	100.00	1	0.550	0.510
TCD75F - 121M	120.00	1	0.670	0.420
TCD75F - 151M	150.00	1	0.900	0.370
TCD75F - 181M	180.00	1	1.050	0.350
TCD75F - 221M	220.00	1	1.350	0.290
TCD75F - 271M	270.00	1	1.550	0.280
TCD75F - 331M	330.00	1	2.050	0.230
TCD75F - 391M	390.00	1	2.300	0.215
TCD75F - 471M	470.00	1	2.600	0.195
TCD75F - 561M	560.00	1	2.900	0.185
TCD75F - 681M	680.00	1	3.400	0.170
TCD75F - 821M	820.00	1	4.200	0.165
TCD75F - 102M	1000.00	1	5.390	0.150

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

Operating Temp.: -40°C ~ +85°C.

Inductance drop=10% typ. at IDC.



SMD Power Inductors

► How to Order

TCD73F - 1R0 M

① ② ③

① SMD Unshielded Power Inductor: TCD73F, TCD75F

② Inductance

Code	Inductance
1R0	1.00 μ H
120	12.00 μ H
121	120.00 μ H

③ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%



SMD Power Inductors

Large Current Power Inductor - TCPA Series

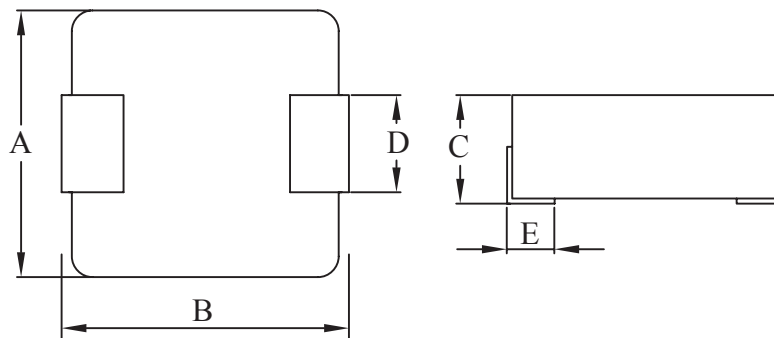
► Features

- SMT Power Inductor
- Low Profile: 4.0mm ~ 6.5mm
- For Large Current Use: 10 ~ 60 amp
- Low DCR
- High Frequency (up to 1MHz)

► Applications

- Laptop Computer / Notebook Computer
- Graphic Card/ VGA Module
- DC/DC converter or VRM applications
- Thin type on-board power supply module for exchanger
- Inductor for general purpose use

► TCPA Configurations & Dimensions (unit: mm)



Type	A	B	C	D	E
TCPA1265	12.8 ± 0.5	13.5 ± 1.0	6.5 max.	3.8 ref.	2.5 ref.
TCPA1250	12.8 ± 0.5	13.5 ± 1.0	5.0 max.	3.8 ref.	2.5 ref.
TCPA1240	12.8 ± 0.5	13.5 ± 1.0	4.0 max.	3.8 ref.	2.5 ref.
TCPA1040	10.5 ± 0.5	11.5 ± 1.0	4.0 max.	2.5 ref.	2.3 ref.
TCPA1040A	10.5 ± 0.5	11.5 ± 1.0	4.0 max.	2.5 ref.	2.3 ref.



SMD Power Inductors

► Electrical Characteristics for TCPA1265 Series

Part Number	L0 Inductance (μH) ±20% @0A	DCR (mΩ)		Heat Rating Current I _{dc} (Amp) ypical	Saturation Current I _{sat} (Amp) Typical
		(Typical)	(Max)		
TCPA-1265-R10M	0.10	0.47	0.55	60	80
TCPA-1265-R15M	0.15	0.53	0.65	55	80
TCPA-1265-R22M	0.22	0.63	0.75	53	80
TCPA-1265-R30M	0.30	0.70	0.85	48	70
TCPA-1265-R33M	0.33	0.83	0.95	46	65
TCPA-1265-R40M	0.40	0.90	1.10	44	60
TCPA-1265-R47M	0.47	1.00	1.30	41	63
TCPA-1265-R56M	0.56	1.20	1.50	37	60
TCPA-1265-R68M	0.68	1.40	1.70	35	60
TCPA-1265-R82M	0.82	1.60	2.10	33	48
TCPA-1265-1R0M	1.0	1.70	2.10	32	46
TCPA-1265-1R2M	1.2	2.10	2.60	30	45
TCPA-1265-1R5M	1.5	2.50	3.10	27	40
TCPA-1265-1R8M	1.8	2.80	3.40	24	36
TCPA-1265-2R2M	2.2	3.80	4.80	22	36
TCPA-1265-3R3M	3.3	5.70	7.10	18	27

Note: All test Data is referenced to 25°C ambient.

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C.

Typical Saturation DC Current would cause Lo to drop approximately 20%.

Operating Temperature Range: -25°C to +125°C.

► Electrical Characteristics for TCPA1250 Series

Part Number	L0 Inductance (μH) ±20% @0A	DCR (mΩ)		Heat Rating Current I _{dc} (Amp) Typical	Saturation Current I _{sat} (Amp) Typical
		(Typical)	(Max)		
TCPA-1250-R10M	0.10	0.53	0.70	55	80
TCPA-1250-R22M	0.22	0.64	0.90	51	80
TCPA-1250-R33M	0.33	0.85	1.20	42	80
TCPA-1250-R47M	0.47	1.10	1.40	38	65
TCPA-1250-R56M	0.56	1.30	1.60	36	55
TCPA-1250-R68M	0.68	1.50	1.80	34	51
TCPA-1250-R82M	0.82	2.00	2.40	31	50
TCPA-1250-1R0M	1.0	2.10	2.65	29	50
TCPA-1250-1R2M	1.2	2.10	2.65	29	30
TCPA-1250-1R5M	1.5	3.60	4.30	23	43
TCPA-1250-1R8M	1.8	4.20	5.10	19	38
TCPA-1250-2R0M	2.0	4.60	5.80	20	32
TCPA-1250-2R2M	2.2	4.60	5.80	20	30
TCPA-1250-2R7M	2.7	4.60	5.80	20	20

Note: All test Data is referenced to 25°C ambient.

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C.

Typical Saturation DC Current would cause Lo to drop approximately 20%.

Operating Temperature Range: -25°C to +125°C.





SMD Power Inductors

► Electrical Characteristics for TCPA1240 Series

Part Number	L0 Inductance (μH) ±20% @0A	DCR (mΩ)		Heat Rating Current I _{dc} (Amp) Typical	Saturation Current I _{sat} (Amp) Typical
		(Typical)	(Max)		
TCPA-1240-R10M	0.10	0.90	1.10	43	75
TCPA-1240-R22M	0.22	1.20	1.40	41	70
TCPA-1240-R33M	0.33	1.30	1.50	38	60
TCPA-1240-R47M	0.47	1.40	1.90	32	55
TCPA-1240-R60M	0.60	2.00	2.30	30	50
TCPA-1240-R68M	0.68	2.10	2.50	28	46
TCPA-1240-R82M	0.82	2.70	3.10	25	44
TCPA-1240-0R9M	0.9	3.00	3.50	24	40
TCPA-1240-1R0M	1.0	3.00	3.70	24	38
TCPA-1240-1R2M	1.2	3.00	3.70	20	25
TCPA-1240-1R5M	1.5	5.50	6.00	19	30
TCPA-1240-1R8M	1.8	6.40	7.60	16	26
TCPA-1240-2R2M	2.2	6.40	7.60	16	22
TCPA-1240-3R3M	3.3	7.50	8.40	14	20
TCPA-1240-4R7M	4.7	10.50	12.00	11	15

Note: All test Data is referenced to 25°C ambient.

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C.

Typical Saturation DC Current would cause L₀ to drop approximately 20%.

Operating Temperature Range: -25°C to +125°C.

► Electrical Characteristics for TCPA1040A Series

Part Number	L0 Inductance (μH) ±20% @0A	DCR (mΩ)		Heat Rating Current I _{dc} (Amp) Typical	Saturation Current I _{sat} (Amp) Typical
		(Typical)	(Max)		
TCPA-1040-R19M	0.19	0.50	0.70	44	44
TCPA-1040-R24M	0.24	0.80	0.90	38	38
TCPA-1040-R36M	0.36	0.90	1.10	35	35
TCPA-1040-R47M	0.47	1.20	1.40	32	32
TCPA-1040-R56M	0.56	1.40	1.60	30	30
TCPA-1040-R78M	0.78	1.60	1.80	25	25
TCPA-1040-R82M	0.82	2.30	2.60	25	20
TCPA-1040-R88M	0.88	2.30	2.60	25	20
TCPA-1040-1R0M	1.0	2.20	2.60	20	20
TCPA-1040-1R5M	1.5	4.50	5.00	15	20
TCPA-1040-1R8M	1.8	4.50	5.00	15	15
TCPA-1040-2R0M	2.2	5.20	5.80	14	14
TCPA-1040-2R2M	2.2	5.50	6.30	14	16
TCPA-1040-2R5M	2.5	5.50	6.30	14	14
TCPA-1040-3R3M	3.3	9.00	11.00	10	12

Note: All test Data is referenced to 25°C ambient.

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C.

Typical Saturation DC Current would cause L₀ to drop approximately 20%.

Operating Temperature Range: -25°C to +125°C.





SMD Power Inductors

► Electrical Characteristics for TCPA1040A Series

Part Number	L0 Inductance (μH) ±20% @0A	DCR (mΩ)		Heat Rating Current Idc (Amp) Typical	Saturation Current Isat (Amp) Typical
		(Typical)	(Max)		
TCPA-1040A-R19M	0.19	0.70	0.80	38	60
TCPA-1040A-R22M	0.22	0.60	0.80	38	50
TCPA-1040A-R36M	0.36	1.10	1.20	30	50
TCPA-1040A-R47M	0.47	1.50	1.70	28	45
TCPA-1040A-R56M	0.56	1.60	1.70	25	40
TCPA-1040A-R68M	0.68	1.60	1.80	25	30
TCPA-1040A-1R0M	1.0	2.80	3.20	21	30
TCPA-1040A-1R5M	1.5	4.50	5.00	15	20
TCPA-1040A-2R5M	2.5	8.50	9.50	13	18

Note: All test Data is referenced to 25°C ambient.

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C.

Typical Saturation DC Current would cause Lo to drop approximately 20%.

Operating Temperature Range: -25°C to +125°C.

► How to Order

TCPA	1265	-	R10	M
①	②		③	④

① Large Current Power Inductor : TCPA

② Size : 1265,1250,1240,1040A

③ Inductance

Code	Inductance
R10	0.10μH
1R0	1.00μH

④ Tolerance

Code	Tolerance
M	20%