



SMT Power Inductors

Unshielded Power Inductor - TC3308DF / 3316DF / 3340DF Series / 开放式功率电感

► Unshielded Power Inductor Features

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

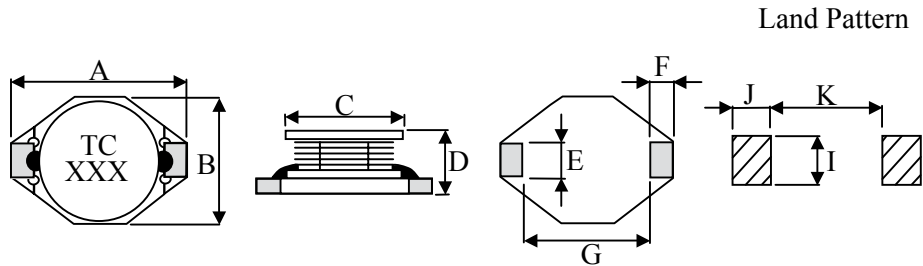
► Applications

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

► Unshielded 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
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 Unshielded Power Inductor

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.



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► Electrical Characteristics for TC3316DF Series Unshielded Power Inductor

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 Unshielded Power Inductor

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.



SMT Power Inductors

► How to Order

1 TC3308DF - **2** 100 **3** M

1 SMT Unshielded Power Inductors: 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%