



Inductors

Power Inductors SMD Shielded - DS104/106/126C2 Series / 功率电感贴片闭磁式

► Power Inductor SMD Shielded Features

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

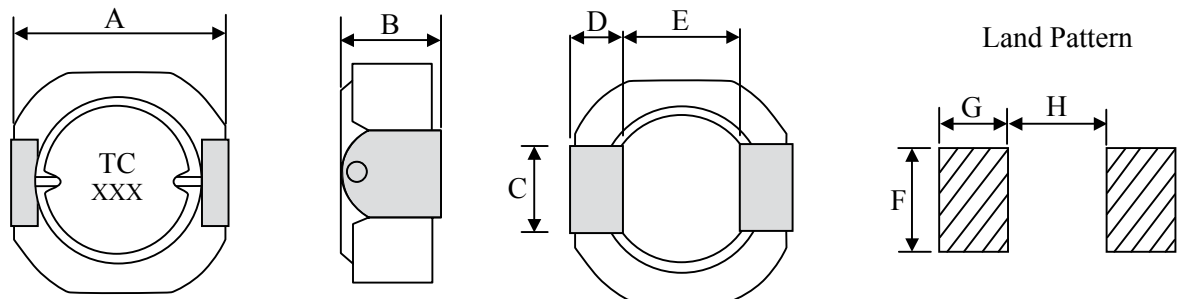
► Applications

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

► Power Inductor SMD Shielded 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 Power Inductor SMD Shielded

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.



Inductors

► Electrical Characteristics for TCDS106C2 Series Power Inductor SMD Shielded

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.





Inductors

► Electrical Characteristics for TCDS126C2 Series Power Inductor SMD Shielded

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
① ② ③

① SMD 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%