



Features (特长)

- Magnetically shielded construction
(闭磁路构造设计)
- Compact and thin (轻便薄小)
- Large Current and Low DCR
(大电流低直流阻抗)

Applications (用途)

- DC-DC converter of portable equipment.
(携带机器之直流转换器)
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook.
(摄影机、液晶电视、数位相机、P.D.A.、笔记型计算机)
- Small size communication equipment.
(小型通信机器)

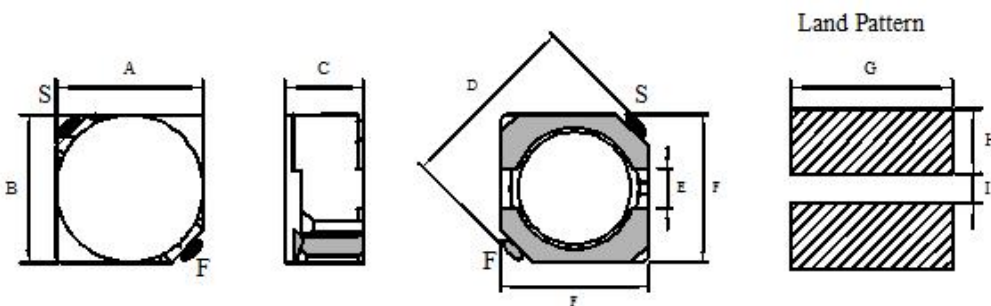
Product Identification (产品识别)

SDH4D18 — _____ (Ex. SDH4D18-1R0M)

1 2 3

1. SMT Shielded Power Inductors (闭磁式功率电感)
(SDH4D18/SDH4D28/SDH5D18/SDH5D28/SDH6D28/SDH6D38)
2. Inductance (电感值)
3. Tolerance (误差值) (参照表 K:10%, L:15%, M:20%, N:30%)

Configurations & Dimensions (结构图及规格尺寸)



Unit In: mm

Type	A ±0.3	B ±0.3	C (max)	D (max)	E (Ref.)	F (Ref.)	G	H	I
SDH4D18	4.7	4.7	2.0	6.9	1.5	4.5	5.3	1.90	1.5
SDH4D28	4.7	4.7	3.0	6.9	1.5	4.5	5.3	1.90	1.5
SDH5D18	5.7	5.7	2.0	8.2	2.0	5.5	6.3	2.15	2.0
SDH5D28	5.7	5.7	3.0	8.2	2.0	5.5	6.3	2.15	2.0
SDH6D28	6.7	6.7	3.0	9.5	2.0	6.5	7.3	2.65	2.0
SDH6D38	6.7	6.7	4.0	9.5	2.0	6.5	7.3	2.65	2.0

♣Design as Customer' s Requested Specifications. (可依客户特殊需求设计)

Codes	L (μ H)	Tolerance	Test Freq. (KHz)	DCR (Ω) max						IDC (A) (max)					
				4D18	4D28	5D18	5D28	6D28	6D38	4D18	4D28	5D18	5D28	6D28	6D38
1R0	1.00	N	100/10	0.045	-	-	-	-	-	1.72	-	-	-	-	-
1R2	1.20	N	100/10	-	0.0236	-	-	-	-	-	2.56	-	-	-	-
1R8	1.80	N	100/10	-	0.0275	-	-	-	-	-	2.20	-	-	-	-
2R2	2.20	N	100/10	0.075	0.0313	-	-	-	-	1.32	2.04	-	-	-	-
2R6	2.60	N	100/10	-	-	-	0.018	-	-	-	-	-	2.60	-	-
2R7	2.70	N	100/10	0.105	0.0433	-	-	-	-	1.28	1.60	-	-	-	-
3R0	3.00	N	100/10	-	-	-	0.024	0.024	-	-	-	-	2.40	3.00	-
3R3	3.30	N	100/10	0.110	0.0492	-	-	-	0.020	1.04	1.57	-	-	-	3.50
3R9	3.90	N	100/10	0.155	0.0648	-	-	0.027	-	0.88	1.44	-	-	2.60	-
4R1	4.10	N	100/10	-	-	0.057	-	-	-	-	-	1.95	-	-	-
4R2	4.20	N	100/10	-	-	-	0.031	-	-	-	-	-	2.20	-	-
4R7	4.70	N	100/10	0.162	0.0720	-	-	-	-	0.84	1.32	-	-	-	-
5R0	5.00	N	100/10	-	-	-	-	0.031	0.024	-	-	-	-	2.40	2.90
5R3	5.30	N	100/10	-	-	-	0.038	-	-	-	-	-	1.90	-	-
5R4	5.40	N	100/10	-	-	0.076	-	-	-	-	-	1.60	-	-	-
5R6	5.60	N	100/10	0.170	0.1009	-	-	-	-	0.80	1.17	-	-	-	-
6R0	6.00	N	100/10	-	-	-	-	0.035	-	-	-	-	-	2.25	-
6R2	6.20	N	100/10	-	-	0.096	0.045	-	0.027	-	-	1.40	1.80	-	2.50
6R8	6.80	N	100/10	0.200	0.1089	-	-	-	-	0.76	1.12	-	-	-	-
7R3	6.80	N	100/10	-	-	-	-	0.054	-	-	-	-	-	2.10	-
7R4	6.80	N	100/10	-	-	-	-	-	0.031	-	-	-	-	-	2.30
8R2	8.20	N	100/10	0.245	0.1175	-	0.053	-	-	0.68	1.04	-	1.60	-	-
8R6	8.20	N	100/10	-	-	-	-	0.058	-	-	-	-	-	1.85	-
8R7	8.20	N	100/10	-	-	-	-	-	0.034	-	-	-	-	-	2.20
8R9	8.90	N	100/10	-	-	0.116	-	-	-	-	-	1.25	-	-	-
100	0.00	M	100/10	0.200	0.1283	0.124	0.065	0.065	0.038	0.61	1.00	1.20	1.30	1.70	2.00
120	12.00	M	100/10	0.210	0.1316	0.153	0.076	0.070	0.053	0.56	0.84	1.10	1.20	1.55	1.70
150	15.00	M	100/10	0.240	0.1490	0.196	0.103	0.084	0.057	0.50	0.76	0.97	1.10	1.40	1.60
180	18.00	M	100/10	0.338	0.1660	0.210	0.110	0.095	0.092	0.48	0.72	0.85	1.00	1.32	1.50
220	22.00	M	100/10	0.397	0.2350	0.290	0.122	0.128	0.096	0.41	0.70	0.80	0.90	1.20	1.30
270	27.00	M	100/10	0.441	0.2610	0.330	0.175	0.142	0.109	0.35	0.58	0.75	0.85	1.05	1.20
330	33.00	M	100/10	0.694	0.3780	0.386	0.189	0.165	0.124	0.32	0.56	0.65	0.75	0.97	1.10
390	39.00	M	100/10	0.709	0.3837	0.520	0.212	0.210	0.138	0.30	0.50	0.57	0.70	0.86	1.00
470	47.00	M	100/10	0.922	0.5870	0.595	0.260	0.238	0.155	0.28	0.48	0.54	0.62	0.80	0.95
560	56.00	M	100/10	1.080	0.6245	0.665	0.305	0.277	0.202	0.26	0.41	0.50	0.58	0.73	0.85
680	68.00	M	100/10	1.300	0.6990	0.840	0.355	0.304	0.234	0.24	0.35	0.43	0.52	0.65	0.75
820	82.00	M	100/10	1.550	0.9148	0.978	0.463	0.390	0.324	0.22	0.32	0.41	0.46	0.60	0.70
101	100.00	M	100/10	1.730	1.020	1.200	0.520	0.535	0.358	0.20	0.29	0.36	0.42	0.54	0.65

Codes	L (uH)	Tolerance	Test Freq. (KHz)	DCR (Ω) max						IDC (A) (max)					
				4D18	4D28	5D18	5D28	6D28	6D38	4D18	4D28	5D18	5D28	6D28	6D38
121	120.00	M	100 / 10	2.390	1.270	1.500	0.560	0.750	0.470	0.18	0.27	0.33	0.40	0.51	0.59
151	150.00	M	100 / 10	2.670	1.350	1.710	0.680	0.950	0.580	0.15	0.24	0.31	0.35	0.47	0.54
181	180.00	M	100 / 10	4.000	1.540	2.240	0.930	1.200	0.690	0.14	0.22	0.28	0.32	0.41	0.49
221	220.00	M	100 / 10	—	1.720	2.440	1.150	1.500	0.890	—	0.20	0.23	0.30	0.37	0.43
271	270.00	M	100 / 10	—	1.950	3.380	1.560	1.700	1.290	—	0.16	0.21	0.27	0.33	0.40
331	330.00	M	100 / 10	—	2.660	4.340	1.980	2.150	1.700	—	0.14	0.18	0.25	0.28	0.37
391	390.00	M	100 / 10	—	2.830	—	2.500	2.250	1.750	—	0.13	—	0.22	0.27	0.34
471	470.00	M	100 / 10	—	—	—	2.700	3.150	2.200	—	—	—	0.20	0.21	0.32
561	560.00	M	100 / 10	—	—	—	3.120	3.750	2.850	—	—	—	0.18	0.20	0.29
681	680.00	M	100 / 10	—	—	—	4.150	5.150	3.200	—	—	—	0.16	0.20	0.25
821	820.00	M	100 / 10	—	—	—	—	—	4.050	—	—	—	—	—	0.22
102	1000.00	M	100 / 10	—	—	—	—	—	5.700	—	—	—	—	—	0.20

※Test Freq. : SDH4D18/ SDH4D28 (100KHz / 0.1V)

SDH5D18 / SDH5D28/SDH6D28/SDH6D38 (10KHz / 0.1V)

※Operating Temp. : $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$

※Inductance drop = 35% typ. at IDC.